

Beginning January 4

The Tech plans issues every Tuesday, Friday

The Board of Directors of The Tech voted unanimously Sunday to initiate semi-weekly publication beginning Tuesday, January 4. After this date the newspaper will appear each Tuesday and Friday during the remainder of the school year.

The decision, which has been under consideration for several weeks, was made for several reasons. The most immediate result will of course be that the news will be made available to the MIT community more frequently.

The expansion will also create the opportunity for additional staff positions at The Tech. The present staff hopes that there will be a proportional increase of students interested in working with The Tech, and particularly encourages freshmen seeking an Institute activity to express their interest.

The Tech provides a change of pace from the typical student's academic schedule. Seated at a typewriter in the new office in room 33 of the Student Center, one can attempt to exercise his literary or journalistic talents towards the goal of providing dynamic reading material for his fellow students.

It is hoped that the Institute community will help to support semi-weekly publications. For many years The Tech was published twice weekly, and today's MIT should be able to support this program.

Fresh enrollment in ROTC higher; Air Force doubles, Army triples

By Dan Asimov
ROTC is very popular at MIT this year.

For some reason, freshman enrollment in Air Force ROTC has more than doubled, and in Army ROTC has more than tripled, over last year's. With this year's sophomore enrollment representing essentially last year's freshman enrollment, the figures are as follows:

	As of Dec. 1, 1965:	Army	Navy	A.F.
Freshman		32	3	32
Sophomore		10	3	15
Junior		5	4	15
Senior		5	6	12

According to Major Joseph Hart of Air Force ROTC, the total enrollment has changed only by one or two from last year's. The large increase in freshman enrollment he attributed to an increased financial aid program. Similarly, Majors Jack Shields and LeVerne Allen of Army ROTC said the tripling in freshman enrollment was probably due to a four year scholarship program just instituted this year. Neither officer felt that increasing draft calls due to the Vietnam situation were responsible for the increase in cadets.

Sergeant Simpson of Naval ROTC explained that the MIT Naval ROTC program is unique in that it does not follow the Holloway Plan, which is followed by almost all other Naval ROTC installments. This is why the enrollment is so small.

Other colleges across the country, including Harvard College, a well-known liberal arts school in Cambridge, have noticed a similar rise in ROTC enrollment, except where ROTC is compulsory.

Registration forms available Jan. 4

Registration material will be available in the lobby of Building 10 Tuesday, January 4, from 9 am to 4 pm.

Regular students must show their registration certificate to obtain materials for second term registration. After January 4 they may pick up registration material at the information office.

Special students and students entering their graduate year may pick up material in the lobby of Building 10 January 4 if their application has been approved by the Admissions office before December 28. If approved after that date, they may pick up registration material at the Registrar's office, E19-335.

In Sala de Puerto Rico

Student Center Christmas party set for Saturday

By Ted Nygreen
Festivities begin at 4 o'clock Saturday when the Student Center opens its doors to the entire student body and faculty for Christmas Party, 1965.

The Center already boasts decorations for the holiday season, and the Sala de Puerto Rico,

where the party will be held, is becoming transformed from a big cold room to a warm cozy atmosphere characteristic of the Yuletide season.

Activities

The entertainment is sure to liven the spirits of everyone. The Doormat Singers and a new folk-

Wiesner heads disarmament panel

By Dan Asimov

A citizens' panel on disarmament headed by Dr. Jerome B. Wiesner, Dean of the School of Science, caught the nation's attention last week when it released a report that differed substantially with current administration policy.

The 15-member panel formed part of the four-day White House Conference on International Cooperation, held in Washington from November 28 to December 1.



The report by the panel included recommendations that the US determine what steps are necessary for the administration of Red China to the UN, and that the US seek a non-aggression pact between NATO and the Warsaw Pact Organization.

In a panel discussion, State Department and Disarmament Agency officials reacted critically to the report. The Administration officials criticized the proposal for the non-aggression pact, for pro-

posals for a joint withdrawal of some troops from both East and West Germany, and for bilateral disarmament talks with Communist China.

Other recommendations of the panel, officially called the Committee on Arms Control and Disarmament, included the following:

- 1) That the US should seek a non-proliferation treaty that severely limits the transfer and production of nuclear weapons, and their acquisition by non-nuclear powers.
- 2) That the US seek to persuade both non-nuclear and nuclear powers that their interests will best be served by preventing further proliferation of nuclear weapons.
- 3) That the US seek an agreement with other nuclear powers pledging them a) not to attack or threaten to attack with nuclear weapons a non-nuclear power, and b) if a non-nuclear power is thus threatened or attacked, to defend it with all necessary means.
- 4) That the US see acceptance of the following measures to halt the build-up and spread of nuclear weapons:

a) A comprehensive nuclear test ban treaty adequately verified, perhaps utilizing recent improvements in national detection systems;

b) a US, UK, and USSR treaty to cease all production of weapons-grade fissionable material.

5) That the US seek agreement with the USSR and possibly other powers on a moratorium of at least three years on the development of anti-ballistic missile systems.

6) That the US join with other powers to provide adequate security for the less developed nations.

7) That the US support the creation of a UN Peace Force.

8) That the US devote further study to mechanisms to facilitate peaceful change, such as a World

(Please turn to Page 3)

Vol. 85, No. 27 Cambridge, Mass., Wednesday, Dec. 8, 1965 5c

Fein named to head group for discrimination research

The Massachusetts Commission Against Discrimination announced November 24 that Dr. Leonard J. Fein, Assistant Professor of Political Science here, has been named officially to head the Commission's Research Advisory Council.

This Council will work with the Director of Research of the MCAD, Mrs. Bernice L. Ravin. Begun, in part, from discussions between Prof. Fein and Mrs. Ravin, the Council has been working unofficially for nearly a year now. As Chairman, Prof. Fein heads up a group of some 20 eminent educators from the Colleges and Universities of Greater Boston, including four others from MIT.

The Council is working with the MCAD both in an advisory capacity, contributing ideas on how the Commission can improve functions such as record-keeping and doing follow-ups on individual cases, and actively, providing student volunteer assistance for interviewing and office work, doing

computer tabulations, and editing and coding questionnaires.

The object of much of this active research has been to formulate a long-range research program in vital aspects of minority group problems in employment, housing, public accommodations, and education. Such research is aimed at being able to spot patterns of discrimination which would enable work to begin before a problem made itself evident in such violent forms as rioting.

'Best dressed on campus'

Lucy picked by Esquire

Richard Lucy '66 of Sigma Alpha Epsilon has been selected as winner in the 'Best Dressed Man on Campus' contest sponsored by Esquire Magazine and The Tech. He was selected over five other finalists by Chip Tolbert, Fashion Editor of Esquire, Tuesday, November 30.

Lucy, a Course XVI major from Jamestown, North Dakota, plans to enter graduate studies in Industrial Management. He is president of the MITAA, founder of the Gymnastics Club, and a member of TSE.

The other finalists, who were selected by student ballot, are, Ken Estridge '66 of Pi Lambda Phi, Richard Odessey '67 of Bexley Hall, Ron Scharlack '67 of Alpha Epsilon Pi, Mike Scott '67 of Phi Mu Delta, and Howard Weisberg '67 of Pi Lambda Phi.

As winner, Lucy will receive a week-long all-expenses paid trip to New York, where he will be presented with an extensive wardrobe, including a wide range of gifts from some of the nation's leading men's wear manufacturers. He will also represent MIT on Esquire's College Advisory Board, which plans to express feelings on fashion trends and to serve as a communications link for campus opinions between the campus and Esquire.

Further, as a member of the Advisory Board, he will participate in Esquire's Back-to-College Fashion Forum in New York and will be photographed for the editorial fashion pages of Esquire's September issue.

Similar contests were held at Arizona State University, Duke University, Marquette University, New York University, Ohio State University, Southern Methodist University, and the University of Colorado.



Photo by John Torode

Rich Lucy '66, MIT's best dressed man, is congratulated by Chip Tolbert of Esquire Magazine, which co-sponsored the contest.

The Tech seeks entries for first photo contest: three divisions created

Rules for the Tech's first annual photo contest appear on Page 5 of today's issue. If you are a member of the MIT community, you are eligible. Enter in any one division, or all three. First prize in each division will be dinner for two at the Tech Square House.

Contest judges include Prof. Minor White and Dr. Harold E. Edgerton.

Top photos will be published in The Tech and displayed in the Student Center.

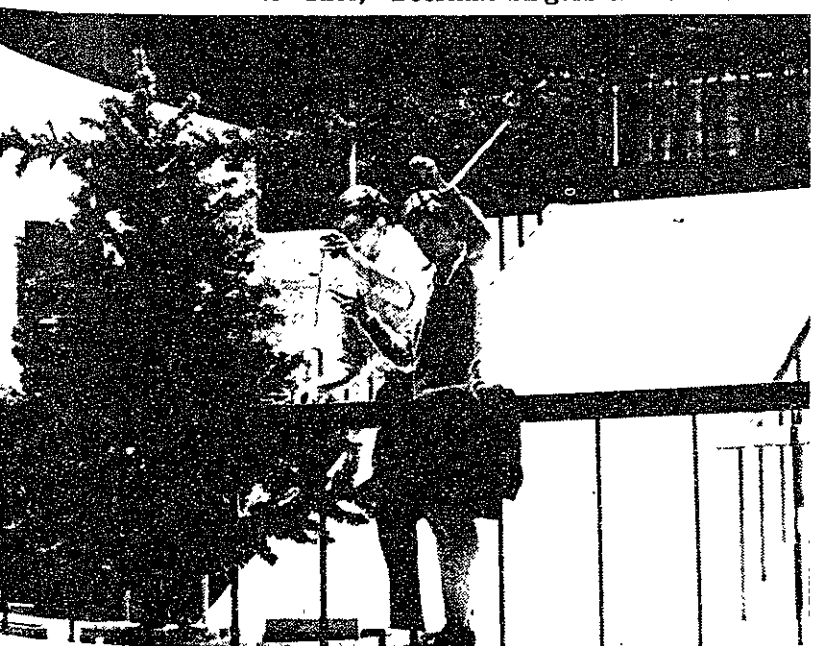
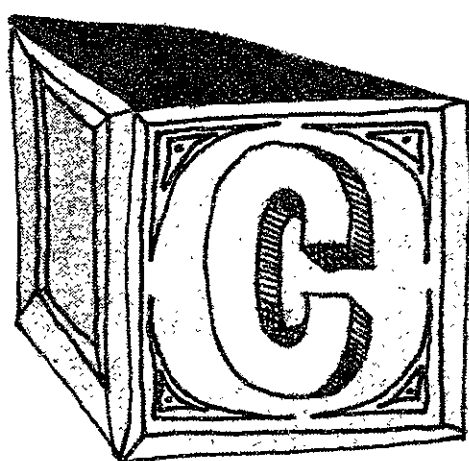


Photo by Art Kalotkin

The Student Center takes on the look of the season—Nancy Salvato, TCA secretary, and Paul Lindsey '67, President of TCA, start decorating the building, where the Institute Christmas Party will be held Saturday.



is for Christmas. And Christmas is for Children. At the Coop.

Children you know will appreciate receiving Christmas gifts that help them grow and have fun at the same time. Listed here are books that introduce youngsters to the scientific world in its many facets, as well as intriguing games and entertaining recordings for their leisure hours. The Coop has lots of gift suggestions for grown ups who enjoy finding books and records under the Christmas tree, too.

BOOKS FOR CHILDREN

The Giant Nursery Book Of Things That Go, George J. Zaffo. About the vehicles that children love. Ages 3-5.

White Snow, Bright Snow, Alvin Tresselt. The excitement that a snowfall brings to children. Ages 3-5.

Now I Know, Julius Schwartz. Explorations about light, darkness, shadow, sound. Ages 5-9.

Zoo Babies, William Bridges. True stories about young animals with beautiful photographs. Ages 5-9.

You Will Go To The Moon, Mae and Ira Freeman. A scientific account of a moon trip simple enough for first graders. Ages 5-9.

Science Fun With Milk Cartons, Herman and Nin Schneider. How to build models of ships, bridges, trains, etc. Ages 9-12.

All About Dinosaurs, Roy Chapman Andrews. An eminent scientist tells of early creatures and fossil hunts. Ages 9-12.

Honker: The Story Of A Wild Goose, Robert McClung. An account of a year in the life of the majestic Canadian goose. Ages 9-12.

Space Flights And How It Works, William P. Gottlieb. The men and ships of space exploration. Ages 9-12.

Everyday Miracle, Gustav Eckstein. A famous physiologist gives exciting insights into animal behavior. Ages 12-15.

You And Your Senses, Leo Schneider. Explanations of how we see, hear, feel, smell and taste. Ages 12-15.

2000 Years Of Space Travel, Russell Freeman. Fancies and facts from ancient discoveries to recent probes. Ages 12-15.

Color In Your Life, Irving Adler. Nature of color, its functions, and how it serves man. Ages 12-15.

The Moon, George Gamow. History and current status of lunar research. Ages 15 and over.

DNA—Ladder Of Life, Edward Frankel. Structure, role, function and behavior of DNA molecules. Ages 15 and over.

RECORDINGS FOR CHILDREN
Folkways Recordings For The Very Young:

Birds, Beasts, Bugs And Fishes, Animal Folk Songs sung by Pete Seeger with banjo.

Songs To Grow On For Mother And Child, composed and sung by Woodie Guthrie.

More Songs To Grow On, sung by Alan Mills with guitar.

French Folk Songs For Children, sung by Alan Mills with guitar.

FOR CHILDREN OF ALL AGES

Excerpts from "The Wind In The Willows," read by Jessica Tandy and Hume Cronin. Pathways of Sound.

"Winnie The Pooh," read by Maurice Evans. Pathways of Sound.

"Stuart Little," read by Julie Harris. Pathways of Sound.

Mary Poppins, original cast: Vista.

SPECIALLY PRICED

"Alice's Adventures In Wonderland," read and sung by Cyril Ritchard. Riverside, four LP records with facsimile volume of rare first edition. \$6.95.

"Through The Looking Glass," available in similar set.

TOYS & GAMES FOR CHILDREN

Toys and Activities for Young Children:

A colorful selection of banks for every age group . . . cuddly plush toys wearing MIT identification . . . Color TV Music Boxes by Fisher-Price . . . variety of Child Guidance toys for pre-schoolers including interlocking beads, towers, etc. . . . gay crayon sets for fun and creativity . . . huge fire and transport trucks in the latest models.

GAMES FOR GROWN UP CHILDREN

Equations, a new game of creative mathematics popular with MIT students . . . word games including Spelling and Spell, Scrabble, Password . . . favorites like Monopoly, Bingo, sets of chess and checkers . . . jigsaw puzzles featuring Op art and abstract designs . . . authentic basketball, hockey, and football games.

THE TECH COOP
OF THE HARVARD COOPERATIVE SOCIETY
IN THE NEW M.I.T. STUDENT CENTER

New December hours: 8:50 a.m. to 5:30 p.m.

MIT asked to suggest candidates for State Department program

By D. B. Jodrey, Jr.

MIT has been named one of a selected number of colleges invited to nominate candidates for the Department of State's 1966 College Summer Intern Program. Persons who wish to be consid-

ered must submit their name to Prof. John Saloma, E53-425 (the Hermann Building), x3145, no later than Monday, December 13. A committee from the Political Science department will select one candidate and one alternate.

Candidates must have demonstrated an interest in pursuing a public service career in the international field. They must be juniors, seniors, or graduate students who will be returning to an accredited college or university in the fall of 1966 for an additional full year of study. They must have an overall grade average of B or the equivalent in their college and graduate school courses, and must be U.S. citizens.

All interns will be appointed at the FSS-9 grade, with an annual salary rate ranging from about \$5100 to \$5700. They may work as assistants to country desk officers, as researchers in political and economic planning processes, or as temporary members of the State Department's operational offices.

In addition, they will have an opportunity to take part in a program of lectures and seminars, where they can meet policy makers in the State Department and leaders of the Federal Government.

Wiesner speaks on panel report

(Continued from Page 1)

Court of Equity to deal with political disputes.

9) That the US repeal the Connally Amendment, i.e., that the US agree to accept the compulsory jurisdiction of the International Court of Justice.

The panel that produced this report, headed by Dr. Wiesner, also included the following people:

Mr. John Fischer, Editor, Harper's; Roswell Gilpatric, Esq. of the New York Bar, former Undersecretary of Defense; Dr. William V. O'Brien, Chairman, Institute of World Policy, Georgetown University; and Harold E. Stassen, Esq. of the Philadelphia Bar, former Special Assistant to the President and US Representative to the Disarmament Subcommittee.

Open 24 hours a day

SC Reading Room proves popular

The Student Center Reading Room, which opened Monday, November 29, on the top floor, has met with great success among the student body.

Open twenty-four hours a day, seven days a week, the reading room provides a duplication of reference materials from all other libraries on campus, totalling about \$60,000 worth of new books.

The reading room provides quiet study conditions as well as reference materials for as many as 495 students at one time. There are no lending privileges.

During the first week of service, the traffic at the reading room rose from 513 the first day to 1,023 Sunday, December 5. Almost one-third of the traffic is reported to occur between midnight and 8 a.m., and Prof. Locke, Director of Libraries, hopes that the service will remain open continuously in the future.

Several students commented on the reading room, and noted that "It's quiet," "quite an improvement," and "the finest thing that ever happened to MIT."

TCA completes Charities Drive

The MIT Charities Drive, run by Ernie Ascherman '67 for TCA, which started November 3rd, has been completed.

This year's results, a total of \$980.06, is not quite as good as last year's \$1,300, but the managers of the drive say they are satisfied nonetheless. Though dormitory results were slightly down, the main decrease was in the fraternities. Two main reasons are apparent; several houses had already collected for the United Fund, and some contributed to an uncoordinated drive from outside the Institute.

Here are this year's results in detail. Money designated for the United Fund, \$255.51; for Care, \$164.32; for the American Cancer Society, \$131.90; and \$428.33 either undesignated or for the Students World Alliance for Progress or the World University Service.

'Ideal study place'

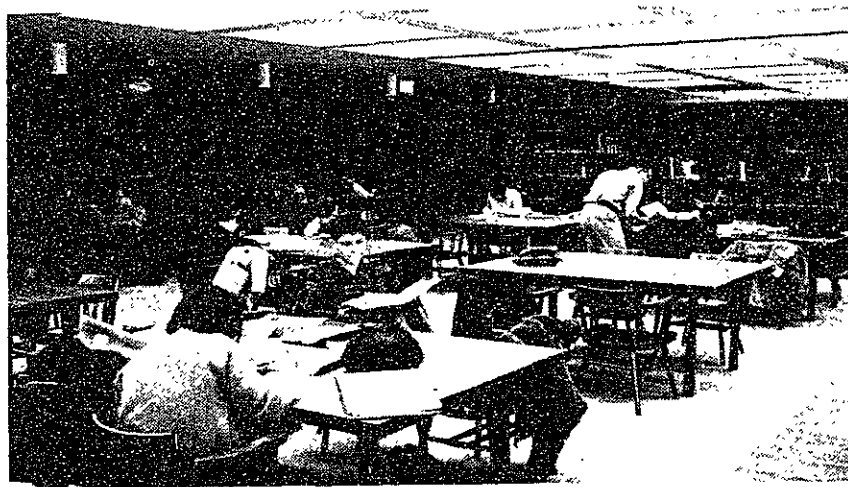


Photo by Art Kalotkin

As evidenced by this photo, the new reading room has become a popular spot for busy students. The pleasant atmosphere and quiet study conditions make this room a focal point in MIT's academic structure.

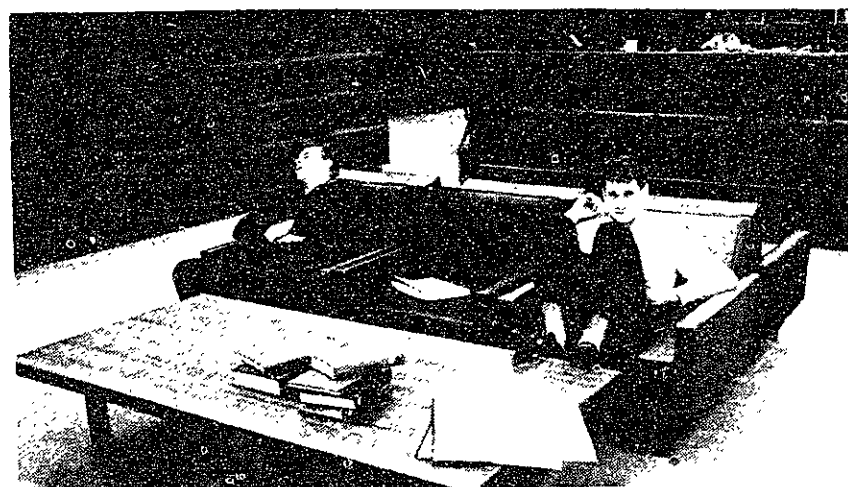


Photo by Art Kalotkin

Reflecting the versatility of the new Student Center, these MIT students enjoy the pleasures of the sixth floor reading room. Note the intensive study which makes this center so valuable as a learning aid.

Holiday spirit sparks living groups to sponsor parties for local youths

Thirteen living groups and service organizations will be holding their annual Christmas parties for Cambridge and Boston neighborhood children.

More than 200 children, between 6 and 11, will gather around towering Christmas trees, and the students will entertain their small guests with refreshments, movies, and games. Students dressed as Santa Claus will distribute presents among the children.

The hosts, many of whom have traditionally entertained the community's children, include Theta Chi, Phi Gamma Delta, Phi Kappa Sigma, Chi Phi, Alpha Tau Omega, Sigma Chi, Lambda Chi Alpha, Delta Upsilon, Theta Chi, and Student House. In addition, three smaller parties will be sponsored by Bexley Hall, the Technology Community Association, and Alpha Xi Delta, a co-educational service group.

Alpha Xi Delta is holding its party at the Boston Association of

Retarded Children. The other parties were organized through TCA and two local settlement houses, Cambridge's East End Union and the Margaret Fuller House, and were coordinated by Kim Collins '66.

Institute Judcomm sentences seven

The Institute Judicial Committee has found four freshmen guilty of pre-field day disturbance in Baker House during which they and 41 other freshmen entered to abduct two sophomores from their room.

The group resisted all efforts by the Baker House Judicial Committee to break up the disturbance. One freshman was placed on Dean's Office admonition for his part in leading resistance to Judcomm efforts. The other three were placed on Judcomm probation.

In another decision, three freshmen were placed on Judicial Committee probation for stealing a small sign from Harvard University. They were caught November 7 by Harvard Police near Central Square.

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TEN's future - - leaders needed

All activities on campus are theoretically part of the student government structure; as such they are qualified to receive Finboard money and are subject to AEB interference. But 99 per cent of the time, this structure can be ignored. The AEB has no reason, no desire, and no time to inspect or aid the successful activities. In fact, they so seldom do get involved that it is unpleasant for them to do so, and they move with great hesitation.

We also are reluctant to meddle; but as a publication, we are interested in other publications. We are especially concerned about Tech Engineering News, which is being continued on a probationary basis for a second year.

TEN's recent history has included financial difficulties (if not downright mismanagement), a drop in circulation, editorial sterility, and a game of Musical Boards, or Who's Publishing? Currently the staff are almost entirely sophomores and freshmen; the content is rehashed articles by faculty members. The total sales of a bit over 500 reflect the community's opinion of the magazine.

The Tech spawned both TEN and Tangent; they first appeared as occasional supplements, became more frequent, and then emerged as independent activities. Now some wonder whether there still is a need for a separate TEN.

We certainly believe there is. Certainly the increased activities around the Institute, and the greater opportunities for student research, warrant better publications now than originally. Even the number of academic departments has increased; beyond engineering, TEN has a fascinating potential field.

The stories are there; we think the community would like to hear about them. The problem is, who to tell them? A good publication requires organization and leadership; where will they come from?

The AEB realizes that stamping on TEN's mistakes won't help it; what is needed is a person or group willing to put

in some positive effort to pull TEN back on its feet. The current low status of TEN seems to be discouraging talented people; let us point out, though, that it is a more worthwhile task to originate than merely to carry on. There is a lot of potential glory on TEN.

We do not mean to discourage the current TEN staff, since they have lately come into responsibility. But they should be aware of the problem. To be blunt, many groups have eyed TEN's office in the Stratton Building. It would be a great shame to see a potentially fine publication crowded out.

Use your Center

Slow construction has delayed the opening of many of the Stratton Building facilities, and evidently the gradual completion of rooms is not as obvious to the public as a grand opening would be. Every addition has been very slow to catch on. But the entire building will be finished after Christmas; then the Student Center Committee will be working in earnest to see that the building is used to full capacity.

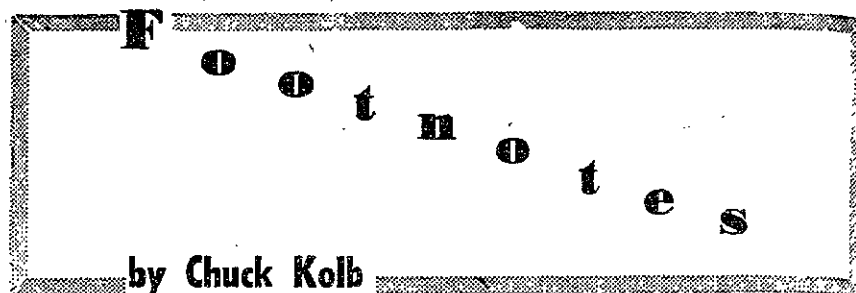
Part of the problem seems to be publicity. There were students studying in the mezzanine lounges after the library opened, for example. As soon as is feasible, a pamphlet should be published listing all the facilities available and the procedures, if any, for using them.

But there is another aspect to the problem, and that is student interest and initiative. The library, Coop, and dining service have obvious functions, but the Sala and lounges can be put to any use imaginable.

This week the committee is talking to heads of activities about sponsoring concerts, lectures, exhibits, or other entertainment. Later they will meet with living group social chairmen to discuss the possible social events in the Center. These conferences are fine, but they won't get anywhere unless there is a real spirit of cooperation among activities and living groups.

Right now people seem to expect all the initiative to come from the Student Center Committee. Actually, as the building's daily activity gets more complex, almost all new events must be sponsored by other groups. It is simply impossible for seven men to make the Center a success, nor is this the committee's purpose. Any contrived effort on their part to foster a non-existent community spirit would be doomed from the start; they can only coordinate the real expressions of that spirit and try to develop a well-balanced program.

Building community spirit isn't something we can do either. But we can encourage it, and hope that its benefits will be apparent. We can also urge that more groups try to use the facilities in the Student Center to express their spirit.



by Chuck Kolb

111. One of the cutest official MIT announcements we've ever seen is one prepared by the Public Relations Office entitled 'Statement Concerning the Center for International Studies.'

The Center, under the direction of Professor Max F. Millikan, came under rather unique attack last year when one writer alleged that it was supported by funds from the CIA. If true, this state of affairs was suspected to clash rather violently with certain principles of academic freedom that the Institute is supposed to hold near and dear.

But truth to the rescue; although the Center has done research for the CIA, as well as the State Department, the Defense Department, the National Science Foundation, the Agency for International Development, and the Senate For-

eign Relations Committee, it is not government controlled. In reality the Center gets the largest part of its funds from the Ford, Carnegie, and Rockefeller Foundations.

All of which just goes to prove that even the US government doesn't have enough loose cash to keep an MIT research group happy.

112. Kudos to Mr. Harold A. Humphrey, accountant for the Undergraduate Association, Steve Douglass, Finboard member, and Keith Patterson, Activities Executive Board member, for luring over 50 activities moneymen to the first Activities Treasurers Conference.

113. After surviving an invasion of English teachers over the holidays, the Institute had no trouble with almost 150 high school chemistry teachers from the New England Association of Chemistry Teachers here Saturday.

Kibitzer

By Mark Bolotin

North
♠ 10 9 6 5
♥ A 8 6 3
♦ A 9 3
♣ A J

West
♠ A 8
♥ 4 2
♦ K 8 6
♣ K Q 10 9 5 4

East
♠ J 3
♥ J 10 9 7
♦ J 7 5 4 2
♣ 8 2

South
♠ K Q 7 4 2
♥ K Q 5
♦ Q 10
♣ 7 6 3

Bidding
West North East South
1 ♣ double pass 2 ♠
pass 3 ♠ pass 4 ♠
pass pass pass

Opening lead: King of clubs.

Today's hand illustrates a transfer squeeze, which is a method of transferring control of a suit from one opponent to another in order to have a squeeze.

Prospects at first looked good for declarer; he expected to lose a club, a diamond, and a spade with an overtrick if hearts broke. The King of clubs was won on the board, and a low trump was led to the King and won by the Ace. West cashed the Queen of clubs and continued with the ten. Dummy ruffed high, but East overruffed with the Jack. East's return of the Jack of hearts was taken with the King, then declarer pulled the last trump with the Queen and played dummy's nine to unblock.

At this point, the contract

seemed to hinge upon a heart split. However, East's heart return and the fact that West had eight cards in the black suits made a heart split unlikely. There does not appear to be a squeeze, since West must have the diamond King for his opening and East probably has the long hearts. However, if East has the Jack of diamonds, it would be possible to transfer the diamond control to him from West's hand by leading the diamond Queen and covering West's King with the Ace.

Since there were not enough entries to test the heart suit first, declarer led the Queen of diamonds. West covered with the King and dummy's Ace won. A spade put declarer back in his hand to run his remaining spades leaving:

North
♥ A 8 6

West
♥ 4
♦ 8 6

East
♥ 10 9 7
♦ J

South
♥ Q 5
♦ 10

Unfortunately for East, he still has to play to the tenth trick. Any discard gives declarer the remaining tricks.

Declarer's "finesse" for the King of diamonds can cost only if West has a singleton King. If West has the Jack of diamonds, the play makes no difference. If hearts split, declarer still has time to stuff a diamond on the long heart.



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Letters to The Tech

Dean's List

To the Editor:

I think the recent abolition of the Dean's List here at MIT is an unfortunate mistake. As an inspiration for obtaining high grades the Dean's List is unequalled, and the Institute will be hard put to find a replacement. The Dean's List is the only formal recognition the Institute gives for good grades, and this honor is certainly worth a term's hard work.

That the Dean's List violates MIT's policy of keeping grades confidential is true, but I see nothing wrong with publishing the

names of those students who do better than average. If need be, the formal Dean's List booklet could omit the names of those eligible students who, for personal reasons, don't want their names to appear.

That the Dean's List no longer serves its purpose as a public relations device is not true. The image of both a Tech student and of MIT are boosted tremendously when the student's name appears in a hometown newspaper as being on the Dean's List. My job last summer was a direct consequence of this, and I will regret the fact that I will no longer be able to see my name thus publi-

cized, even though I work just as hard.

I cannot see how the Dean's List is detrimental to anyone. For those who do not make it, it is an incentive; for those who do, it is an achievement well worth the work necessary. I realize that many students do not care, but I think the Dean's List is valuable if it helps only 1% of Tech students get better marks. I certainly hope that student opinion will have some say in the matter, and that the Academic Council will reconsider its decision.

Robin K. McGuire '68

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Photo Contest Rules

1. Only members of the MIT community are eligible.
2. Entries must be submitted to The Tech no later than 12 noon, January 19, 1966.
3. Entries must be entered in one of three categories: Scenic, Action, or Creative. The category must be specified.
4. Only in the Creative division will such techniques as retouching, montages, and double-exposures be allowed.
5. All entries must be unmounted black-and-white prints no larger than 8"x10". No color pictures will be considered.
6. Entrants must include with their entries their name, address, and phone number, as well as connection with the Institute. All entries become property of The Tech.
7. Winners will be announced in the February 8 issue of The Tech.
8. Contest judges will be: Professor Minor White, head of Creative Photography courses in Department of Architecture; Dr. Harold E. "Doc" Edgerton, Head of Stroboscopic Light Laboratory; John Torode, photography editor of The Tech; and Jeff Reynolds, Contest Chairman.
9. The decisions of the judges will be final.

Top photos in each division will be published in The Tech. First prize in each division: dinner for two at the Tech Square House.

Letters to The Tech

(Continued from Page 4)

An honest proposal

To the Editor:

I would like to suggest the creation of a Siesta Room in one of the lounges of the activities floor (5th floor) of the Student Center.

It seems to me that the Center should offer comfortable and more private sleeping facilities to those dedicated students, exhausted by the pressure of modern life. As we have done with dining facilities, rest rooms, etc., we should systematize the use of couches or cots throughout the building, in rooms where the students can remove their shoes and feel at ease with their snoring. Muzak music synchronized at the rhythm and noise level of napping snoring could probably be broadcast through the sound system to speed up sleeping. Low scratch-proof reinforced concrete tables should be placed in front of soft arm chairs to allow the students to relax their feet while reading or napping.

By providing such a service, we probably may be able to use the main floor and mezzanine lounges without the fear of bothering them or feeling like intruders.

I am sure that if this suggestion is seriously presented to a Napping Committee, their members may provide delightful ideas to make a Siesta Room the most successful and exciting room of the entire Center. Shall we try?

Eduardo Catalano
Professor of Architecture
Architect, Stratton Building

BBC film

To the Editor:

For a community so concerned with creating an image of the whole man, the BBC's insidious blow may have been a well deserved, though out of place, warning.

Perhaps it is not normally the British way to leave things half undone, but while we have seen an overwhelming volume of complex electronic gadgetry and an unending chain of blinking though lifeless electronic computers, our efforts in political science, psychology, the biological sciences and other fields were either left in the dark or masked by computer displays; while we have seen dozens of overworked students describe their 'round the clock study schedules, not one word was mentioned of our vast and well used athletic facilities, nor a fleeting scene of our crew races shown; while our student officers were portrayed as benker-politicians and our student body as an uncivilized mob in the armory, our dozens of creative student organizations and our formal Junior Prom were completely ignored; while a group of talented music students were displayed as virtually inferior to musical machines, our greatly admired and respected artistic clubs such as

the Gilbert & Sullivan Society were left behind the curtain; and our ROTC cadets along with our military program in general were sneered at while American soldiers are giving their lives for precisely those causes that the English have once failed to uphold in spite of their word, the price of which failure they know so well.

It may be that the BBC felt we would only be second if the other half of the picture were presented.

But there is a lesson to be learned here that is much more valuable than abolishing the Dean's List. The scientist, the engineer, and the MIT student in general will not be handed his deserved respect on a silver platter. He must earn it and guard it. The MIT officer who feels that recognition is automatically due and who speaks in poetry rather than in prose, which poetry lends itself to rhyming excerpts; the student who substitutes the interviewer's microphone for the analyst's couch and who forgets, though for a moment, that a hard worked for education is one of the most trustworthy companions for life—both will inevitably fall into the trap of the envious in third place and will somehow contribute to the American image in general. Let us not, through our own imprudence, spell our doom by voluntarily filling in the pages of subtle un-American propaganda.

Gary G. Matison '66

IFC refund

To the Editor:

The cause of the "outcry," as your editorial so melodramatically put it, concerning the Jerry Lee Lewis concert, should be clear enough. After refunding the second dollar, the reported profit amounted to \$207.

I for one was unsatisfied with the entertainment, and have attended almost every beer-blast for the past four years. Of course the I.F.C. is not at fault for failing to provide the advertised entertainment, but along with the possibility of profit one must assume the responsibility of loss. If the I.F.C. was trapped by a contract clause, it is their own fault; the Dean's Office would have gladly supplied a contract guide.

Not only was the entertainment worth at most three dollars, but the refreshments were located in one area only, resulting in extreme congestion. If a final profit of greater than \$207 had been reported, I would have been unconvinced that I was not being "fleeced," to borrow your fitting expression.

As former dormitory social chairman I have a fair idea of the costs involved in such a function, and am sympathetic to the I.F.C.'s position, but demanding my two dollar refund certainly won't keep me awake at night.

A profit of \$1007, (approximately 800 attended) would have been unreasonable.

Anthony L. Fiorentini '67

Resolved: Tech Is Hell

The European view of Tech life

BBC: 'How to be first'

By Eric Gokher

"Tech is Hell," a place where math and science is pounded into our heads." "You've got to budget all your time . . ." "The United States Government spends 50 million dollars a year to operate Lincoln Labs." "Hup, two, three . . ." as the camera panned across ROTC in drill.

This was the long awaited picture produced by the British Broadcasting Company for tele-viewing in the United Kingdom, featuring MIT.

Consistent View

For better or for worse, the BBC presented a very consistent view of MIT. What it had in mind is best explained by the title, 'How to Be First.' From the corridors of Building Two to the hills surrounding Lincoln Labs, the unrelenting eye of the BBC camera recorded an MIT quite unfamiliar to most graduates and undergraduates.

If one accepts the BBC as gospel, then MIT is perhaps the largest, most single-minded pressure cooker in the free world. It is respected, not loved, and more to be feared than respected. The view of the undergraduate is that of a soulless, overworked, under-washed, non-individual bent on trying to keep head above water in the maelstrom which is MIT. The cream of America's intellectually gifted and scientifically inclined youths are drawn to MIT, and when they arrive their mettle is tested beyond the rigors of normal mortals.

Many demands

They are subjected to an unbelievable array of academic demands. Even occasional escape must take on mammoth proportions—and a beer blast in full swing becomes the focus of attention. But be brief! Back again to the math, physics, chemistry, and even humanities. No mention is made of the human side of Tech after the first brief minutes of the film. This, then, is the BBC version of undergraduate life.

The film deals more tenderly, if not more accurately, with graduates. They are a rare and necessary commodity in America, so it is MIT which is most capable of handling the best. Graduate training becomes a metamorphosis whereby a budding superman having emerged

(Please turn to Page 8)

The hollow men of MIT

(Ed. note: The following article was translated from the June 1964 issue of the French magazine, Realities, by John Corwin. Titled 'The Young Prodigies of MIT,' the article paints a rather distorted view of both MIT and its students.)

"Tech is Hell; Hell is Tech. Our university is a place of torture, and look at us, pale, emaciated, unshaven, dirty, even grungy, sliderule dangling from our belts. We are the damned of progress, the concentration of intelligent youth, the geniuses. Contemplate the 6,000 students housed in the ancient buildings of Cambridge, the factories, the warehouses. Without us the wheels of technical progress would stop dead."

In 1956 MIT was the largest engineering school in America—the most selective, the most difficult, the most expensive. The MIT label guaranteed a dynamic, self-confident graduate, armed with initiative and imagination. Then came Sputnik. From coast to coast American education trembled. MIT, highly conscious of its responsibility, completely remodeled its concept of the engineer in the nuclear age.

MIT's Purpose

"The difference between creation and reproduction suddenly became apparent to us," explains Dr. Gordon S. Brown, Dean of the School of Engineering at MIT. "Any school can teach road-building and construction. We want to turn out new men with new ideas: the 'scientific engineer.' Not only must he know the fundamental sciences, but he must learn to build more sophisticated machines."

"This is why we try, through careful selection, to have at MIT only those people who will bring new ideas to the world. This is why our programs change every two or three years. This is why our staff must engage in active research. A professor who does not himself remain a student has no place in a modern university."

With such an ambitious program, MIT has become the most feverish factory of learning and

(Please turn to Page 13)

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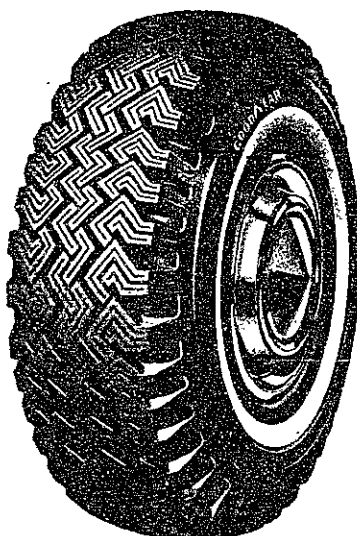
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The Bulletin Board

Compiled by the Public Relations Committee of Incomm, The Bulletin Board is a weekly service of the PRC and The Tech.

Meetings and events may be included in this article and in the MIT Student Bulletin by filling out a form in the Incomm office or in Mr. Jim Murphy's office in the Student Center at least 12 days in advance of the week the event is to occur.

The deadline for events of the week of December 20-26 is today, Wednesday, December 8.

Further information may be obtained from Bob Howard (x3783), editor of the MIT Student Bulletin.

Wednesday, December 8

8:00 am—Roman Catholic Immaculate Conception Mass. MIT Chapel.

12:05 pm—Roman Catholic Immaculate Conception Mass. MIT Chapel.

3:30 pm—Tea preceding Geology & Geophysics Dept. Lecture. Room 54-923.

4:00 pm—Department of Geology & Geophysics Lecture: Recent Developments in Submarine Geology. Speaker: Prof. H. W. Menard, University of California. Room 54-100.

4:00 pm—Civil Rights Committee. Students for Democratic Society, and Social Club. Lecture: Deacons for Defense (The Deacons are an armed Negro Civil Rights organization pledged to shoot back). Speaker: Charles Sims, President of Bogalusa Deacons. Student Center, Room 407.

5:00 pm—MIT Concert Band Rehearsal. Kresge Auditorium.

5:00 pm—MIT Glee Club Rehearsal. Kresge Auditorium.

5:05 pm—Roman Catholic Immaculate Conception Mass. MIT Chapel.

7:00 pm—Rehearsal for Phi Lambda Upsilon Show. Student Center, Sala de Puerto Rico.

8:30 pm—Dramashop presents You Can't Take It With You. Admission: \$1.50 per person. Kresge, Little Theatre.

10:00 pm—Lutheran Vesper Service. MIT Chapel.

Thursday, December 9

3:00-6:00 pm—AWS Open House. The Cheney Room, 3-310.

5:00 pm—Club Latino. Lecture: Entrepreneurship Training for Industrial Development. Speaker: Prof. Bauman. The Bush Room.

5:00 pm—Tangent Meeting. Student Center, Room 485.

5:00 pm—MIT Glee Club Rehearsal. Kresge Auditorium.

6:00 pm—IFC Meeting. Hotel Kehmore.

7:00 pm—Rocket Research Society. Student Center, Room 467.

7:00 pm—TCA Mental Hospital Project. Meet in Student Center, Room 450.

7:00 pm—Course XXI Society Meeting. Student Center, Mezzanine Lounge (level 4).

7:15 pm—Tech Catholic Club Meeting. Cider & donuts. Student Center, Room 407.

8:30 pm—Dramashop Production. Kresge, Little Theatre.

8:30 pm—Hubbub with Gerd Stern presented by the Department of Humanities. Free tickets available with MIT ID in Lobby Bldg. 10. Kresge Auditorium.

Friday, December 10

12:00 noon—Voo Doo: Stunt. Lobby Bldg. 10. Sales in Bldgs. 10 and 2.

1:00 pm—MIT Islamic Society: Juma Prayers. Kresge Rehearsal Room A.

4:00 pm—Conference Committee Meeting. Student Center, Room 407.

5:00 pm—Tech Catholic Club: Philosophy Lecture Series. Room 3-133.

5:00 pm—Science Fiction Society. Spofford Room, 1-236.

5:15 pm—Vedanta Worship Service. MIT Chapel.

7:00 pm—LSC Movie: That Man From Rio. Admission: 50c. Room 26-100.

7:30 pm—MIT Hillel: Friday Evening Service. MIT Chapel.

8:00 pm—Graduate Students Dance. Admission: \$3.00 per couple. Student Center, Sala de Puerto Rico.

8:30 pm—Hillel: Debate and Discussion. Student Center, East Lounge (level 3).

8:30 pm—MIT Concert Jazz Band Concert. Admission: Free. Kresge Auditorium.

8:30 pm—Dramashop Production. Kresge, Little Theatre.

9:30 pm—LSC Movie.

Saturday, December 11

10:00 am—IFC Presidents Conference. Student Center, Mezzanine Lounge and Game Room.

1:00 pm—War Games Society Meeting. Student Center, Room 473.

1:30 pm—MIT Bridge Club meeting. Walker Memorial, The Blue Room.

1:30 pm—MIT Chess Club Meeting. Student Center, Mezzanine Game Room.

2-5:00 pm—Tech Show Auditions. Kresge Auditorium.

2-5:00 pm—Tech Model Railroad Club Open House. Room 20-E-214.

4-6:00 pm—Student Center Committee Christmas Party. The Student Center.

5:15 pm—LSC Movie: How To Murder Your Wife. Admission: 50c. Room 26-100.

5:30 pm—Korean MIT Student Association Annual Meeting. Student Center, Room 491.

7:30 pm—LSC Movie.

7:30 pm—Phi Lambda Upsilon Satirical Revue and Christmas Party. Refreshments. Student Center, Sala de Puerto Rico.

7:30-10:30 pm—Tech Model Railroad Club Open House.

8:00 pm—Hillel Chanukah Party. Student Center, Room 407.

8:30 pm—Dramashop Production. Kresge, Little Theatre.

9:45 pm—LSC Movie.

Sunday, December 12

1:30 pm—MIT Chess Club Meeting. Student Center, Mezzanine Game Room.

2-5:00 pm—Tech Show Auditions. Kresge Auditorium.

6:00 pm—Student Center Dining Staff Dinner. Student Center.

6:30 pm—MIT Concert Jazz Band Rehearsal. Kresge Auditorium.

7:30 pm—MIT Folk Dance Group. Student Center, Sala de Puerto Rico.

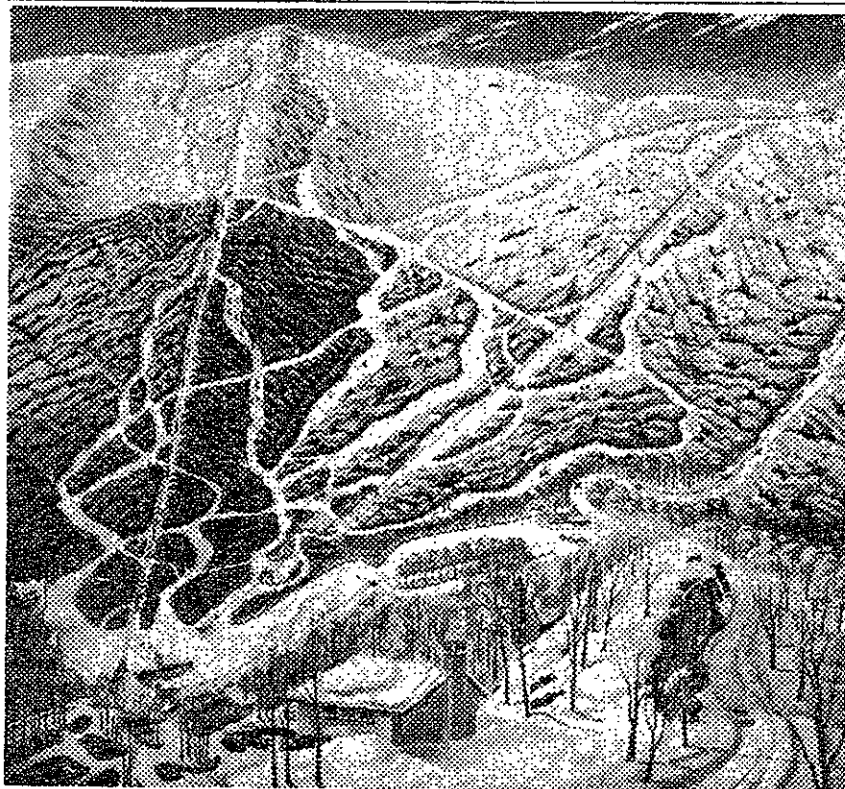
8:00 pm—LSC Classic Movie: The Phantom of the Opera and Dante's Inferno. Admission: 50c. Room 10-250.

8:00 pm—Freshman Council Meeting. Student, Room 407.

Monday, December 13

5:00 pm—Harpichord Concert: James Anliker. Admission: Free. Student Center, Sala de Puerto Rico.

(Please turn to page 15)



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NOTE: More trails and facilities have been added since the above picture was made. (1) The "Antelope", with varying grades, dozens of turns. 2 undulating miles long. 2000' drop (2) The "Quackie" trail net from the top of the Double Chair; and the "Periwinkle". Also a colorful nursery building and special high-level slalom hill, with rope tow. Ski School, slalom instruction, ski shop, restaurant, licensed lounge. WRITE: Folder.

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ACTIVITIES '65

SPOTLIGHTS

Christian Science Soc.

(Ed. note: This series of articles is being written by the Public Relations Committee, and will focus on a different activity each week.)

Since 1866, when Mary Baker Eddy first formed her ideas, the Christian Science movement has spread all over the world in the form of the organized church and in extra societies.

For over 40 years now the MIT community has had one of these societies available to the student, formed with the purpose of encouraging Christian ideals and brotherhood, and to encourage the studying of the Christian Science religion.

Besides regular Sunday church, the members of the organization hold meetings every Tuesday at 7:15 pm in the MIT chapel, with an agenda much like the testimony meetings of the church.

Presents lectures

To supplement the regular meetings, the society has two lectures every year, and according to President Bob Bosler '67, next April the entire MIT community is invited to hear Lenore D. Hanks speak. This fall Albert R. Slaughter, a well-traveled lecturer from Dallas, spoke on "Where are you going," a lecture concerning personal motivation.

Other projects, such as selling subscriptions to the Christian Science Monitor, working with other MIT clubs and organizations, holding open house in the Chapel, and talking to high school students, keep the organization quite busy.

Readers for the Tuesday night meeting include Tom Harvey, a part-time instructor and PhD candidate from the University of Illinois, and Tom Carroll, a doctoral student in course 17. Newly added this year is an adviser, Richard Sampson, an administrative offi-

cer in Course I from Harvard Business School.

Called "pragmatic"

Pres. Bosler says his society is "pragmatic, much like the church." But besides special projects, there are regularly held events. At the end of each semester the organization has a metaphysical meeting "to get our minds cleared and ready for exams."

One of the major projects this year was handled before school started. At the end of August the society housed about 200-300 students from all over the country in the MIT dorms for a few days. Once every two years college students from all over the country come to Boston for a Christian Science meeting.

When discussing plans for the future, Tom Harvey said they were "looking for more ways to be active on campus, and provide more service in ways appropriate to an organization of our type."

About 20 members

Membership right now stands at about 20, not including freshmen. All freshmen that indicate Chris-

tian Science on their religious preference cards are contacted, although others come to meetings, for it is not required that one be formally allied to the Church.

Having formal membership requires being interviewed, coming to two regular meetings, and being voted in by the present members. Leaders in the society this year include Pres. Bob Bosler '67, vice-president Al Anversin '65, and secretaries John Lindley '67 and Hilde Lindsey, a graduate student.

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Sigma Gamma Tau holds initiation; head of Mass CAB addresses group

The MIT Chapter of Sigma Gamma Tau held its semi-annual initiation banquet at Endicott House Thursday. Sigma Gamma Tau is the national aeronautical and astronautical engineering honorary society, whose purpose is to bestow recognition and distinction upon those, in the field of aeronautics and astronautics, who, by their scholarship, integrity, and achievement, have conferred hon-

or upon MIT. The guest speaker of the evening was Mr. Crocker Snow, head of the Massachusetts Civil Aeronautics Board.

Following dinner there was an initiation ceremony for the new members and the society's annual election of officers. The new officers are president Michael Marx '66, vice-president Bernard Mathaisel '66, treasurer Dennis Jedlinsky '66, and secretary Herman Rediess, G. The new members, initiated at the banquet, are Harold Barnes '66, James Carroll '66, James Deckert '66, Allen Inversin '66, Dennis Jedlinsky '66, Harold Jones '67, Anthony Pirri, G, Max Polak '67, Herman Rediess, G, Mark Sussman, G, and Jacques Tramoni, G.

College World

By Mike Rodburg

Sex—what about it? Well, the University of Minnesota Daily apparently thought enough of it to devote an entire issue to the subject. The paper's coverage included an analysis of the sex question on the Minnesota campus, across the nation, and around the world.

The University's officials prefer to follow a "middle road." One of the most controversial issues has been the "closed door policy" of the administration. Disciplinary action for breaking the rules is usually handled by the administrators, though students have been known to "rat" on their classmates. "One such case involved a 'girl who was always necking early in the morning' because her boyfriend worked nights. Because the incidents were 'offensive to some of the dorm residents, especially at 7:30 in the morning,' they were reported."

The Dean of Students commented on the recent discussions of "in loco parentis" (literally "in place of parents") with regard to the University. "It's been much abused," the dean said; "roughly translated the phrase means 'we help you' rather than 'that damn

The basic SEX dilemma: Should I or shouldn't I?

dean is regulating me."

Bull sessions

The Daily arranged two bull sessions in order to sample students' views. One involved only men, the other only women. The comments covered dating, etiquette, and, of course, sex. "Although the men agreed physical appearances may be important as an initial attraction, one said, 'A lot of guys don't like a girl who's a clothes horse. She looks a lot better if she melts into what she's wearing.' One dismissed excessive makeup and clothes with the comment, 'You don't put ketchup on a good steak, but maybe a hamburger needs it.'

"The most differentiating factor among coeds, the men agreed, is age. 'Freshmen girls think all men are nasty,' one engineering student said, 'Sophomore girls think some are, juniors know they all are, and the seniors are glad.' 'Freshmen aren't too concerned with technique; they let their emotions run away with them. But they worry because they aren't aware that girls like sex, too.' These and more profound remarks continued. The men generally agreed that "you don't go out trying to get a girl to go to bed with you."

Coeds: "Marriage"

The coeds spoke naturally more in terms of marriage. They saw security in being tied down by the junior year. One sophomore girl gladly reported that she allows her boyfriend "one night out with the boys a week. I don't want to tie him down," she concluded. Another of these thoughtful coeds offered a solution to the embarrassing situation problem: "Give the boy enough to keep him happy, but not enough to talk about."

In comparing University students to Eastern men, one knowledgeable coed noted, "Eastern boys take sex as a matter of course, while it's a big deal for most Midwest boys."

The girls favored birth control

-pills, but abhorred abortion, "unless a madman raped her, or something." Or something?

Girls at fault

A column by Blair Charnley blamed all moral degeneration on girls. He begins his "objective, unemotional view of the sexual mores of modern college students" with this brief vignette:

"She poised delicately on the edge of the desk. Her camel-brown coat slipped open, revealing a tight scarlet skirt that buttoned suggestively up the front.

"As she read a notice on the bulletin board, she absent-mindedly swung her nylon sheathed leg, dangling the svelte blue-black four inch spike heel. Then she stretched her left leg out, pointing her toe like an exotic dance, flexing her slender young ankle."

To prevent the intellectual disintegration which results from moral degeneration, Charnley proposes: "Don't date coeds who wear unseemly clothing. Organize a series of 'back to morality' protest teach-ins. Burn all Minnesota Daily sex editions (that might go for The Tech sex column). Organize basketball and volleyball games instead of going to sexy movies." He urges everyone to begin the protests; in the meanwhile, he plans on researching the matter a bit more.

"Sex and College"

The book review column, by Liz Nussbaum, presented none other than Gael Greene's 'Sex and the College Girl.' Of the quotes of various college girls quoted in the book, quoted in the column, we would quote the following from a Wellesley girl: "A policeman comes around and breaks it up if your head disappears below the window—very annoying." We'd like to know how the cop knows when the first head disappears.

Miss Greene's book was considered quite readable, though not too earth shaking in its revelations. She cites, for instance, a 1938 study which predicted that

(Please turn to Page 15)

Tech Show to hold auditions; large and varied cast required

Tech Show '66, MIT's original musical comedy, will hold auditions for this year's production Saturday and Sunday, December 11 and 12, from 2 to 5 p.m. and Monday, Tuesday, and Wednesday, December 13-15, from 7 to 10 p.m. in Kresge Auditorium. The entire MIT community, as well as girls from the Boston area, are invited to attend auditions. For accompaniment on previously rehearsed numbers, those trying out should supply their own music.

This year's Tech Show is a modern-day satire on the Presi-

dential Administration, the Russians, and school life. Director John Sowle '66 announced, "The show will require a huge cast of at least forty—and will need everything from the chorus to football players." The show will be presented in early March. It was written by Steve Alter '67. Choreography will be done by Mary Ellen Fitch.

For any information regarding auditions or any other aspect of Tech Show, contact John Sowle at X-3616 or KE 6-1300 or General Manager Stu Vidockler at 566-1276.

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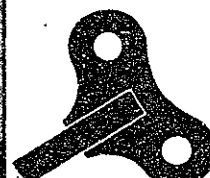
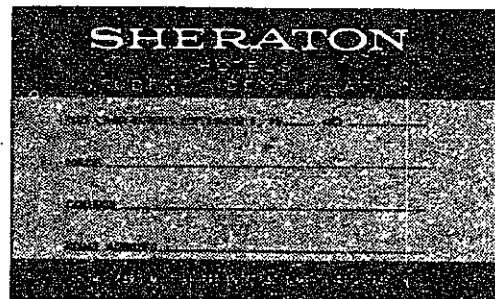
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Textbooks wrong

Mercury's rotation rate corrected

By Mike Rodburg

Contrary to years of popular belief, the planet Mercury rotates on its axis every 58.6 days, not the 88 days thought previously and reported in most textbooks.

Both optical and radar observations have confirmed this figure. The agreement between the optically observed rotation and the recently discovered radar-determined rate is reported in the British scientific journal *Nature*.

Predicted Accurately

Theoretical calculations by Dr. Irwin Shapiro of MIT's Lincoln Lab and Dr. Giuseppe Colombo of the Smithsonian Astrophysical Observatory, Cambridge, predicted the 58.6 day figure exactly. The mathematical theory was begun last spring when initial radar observation noted that the smallest and innermost planet of the solar system rotated about its axis every 59.5 days. "This was clearly not 88," said Dr. Shapiro.

Previous optical observation had always "confirmed" an 87.9 day figure, the same as the period of revolution of the planet about the sun. Dr. Colombo noted, however, that 58.6 was precisely 2/3 of the revolution about the sun.

Mercury Unique

The two men worked out the dynamics of the planet based on the well-founded laws of physics

applicable to a body in Mercury's orbit. They concluded that such a body in stable rotation and revolution is a system quite different from our moon. "Mercury is unique in the solar system in the manner in which it is locked-in with respect to the sun," Dr. Shapiro explained.

Optical observation had always reported that the orbital period and rotational period were the same, 87.9 days. This would mean that Mercury's orientation with respect to the sun did not vary. One side would continually broil while the other remained frozen.

Old Theory Abandoned

When the radar observation showed that the rotation was not equal to the revolution, the old theory that Mercury was a locked-in system like the moon had to be abandoned. Dr. Shapiro and Dr. Colombo considered the large eccentricity of the orbit, and based on gravity forces and other effects, predicted the angular velocity to be precisely 3/2 the rotational.

The planet is then locked-in in a very unique manner. It makes a neat and complete "about face" on every orbit. The large eccentricity leads it to "face" the sun on one solar approach and present its "back side" on the next. Hence a year on the planet lasts precisely one and one-half Mercury days.

To Be Published

At present the calculations of the two scientists appear only as "Smithsonian Astrophysical Observatory Special Report 188." The results of their work is being prepared for eventual distribution in a scientific journal. Dr. Colombo spends only summers at the Smithsonian Observatory. In the winter he returns to his post as Professor of Mechanics at the University of Padua in Italy.

Dr. Shapiro remarked, "The paper shows that optical reports have been inconsistent, and what they said was observed could not possibly have been seen." Optical observation of the inner planets

(Please turn to page 14)

Government foots the bill at Tech; computer gazed upon with awe

(Continued from Page 5)

relatively unscathed by four years of undergraduate horrors, is transformed into a super-scientist through a combination of more-of-the same, original research, and divine inspiration provided in part by the student, in part by the Institute.

Having dealt with the least essential element of MIT, the people, the film is free to take on that mass of flashing lights and polysyllabic terms known as scientific programs of research and development. And MIT is full of them.

Since no individuals, not even the millionaire professors, are rich enough to foot the cost of science; and since no one except the government needs so desperately the products of MIT, the federal government has taken on the expenses of Tech. They provided funds for research into new and terrible weapons of defense and offense. The instrumentation lab has made possible the Polaris missiles and subs. The US radar defense system was conceived and designed by MIT. And then there is Lincoln Labs. This citadel of secret science is the birth place of tomorrow's American strength.

Thus, scientists who wish to work with the most expensive and sophisticated apparatus in an area of academic freedom must seek out the Army supported projects of MIT.

Computers reign

The incredible world of computers is given the same thorough treatment as other aspects of Tech. The dream of a computer in every living room is not so much a dream of tomorrow—it exists today at MIT. The machines are destined to replace artists (they draw in 3-D), and musicians (they write their own music), and people in general. That is, all except those involved at MIT.

The impact MIT has on its environs is shown through the numerous firms which have grown up around the school like mushrooms at the base of a tree stump. They feed on MIT technical know-how and scientific achievements. All in turn feed eventually on the federal government.

As the computer music plays in the background, the BBC camera is again on the move. It wheels quickly down the endless corridors into eventual darkness. One wonders; if this is 'How to be First', why be first at all?



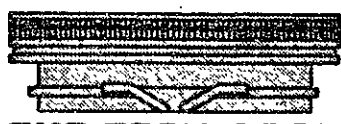
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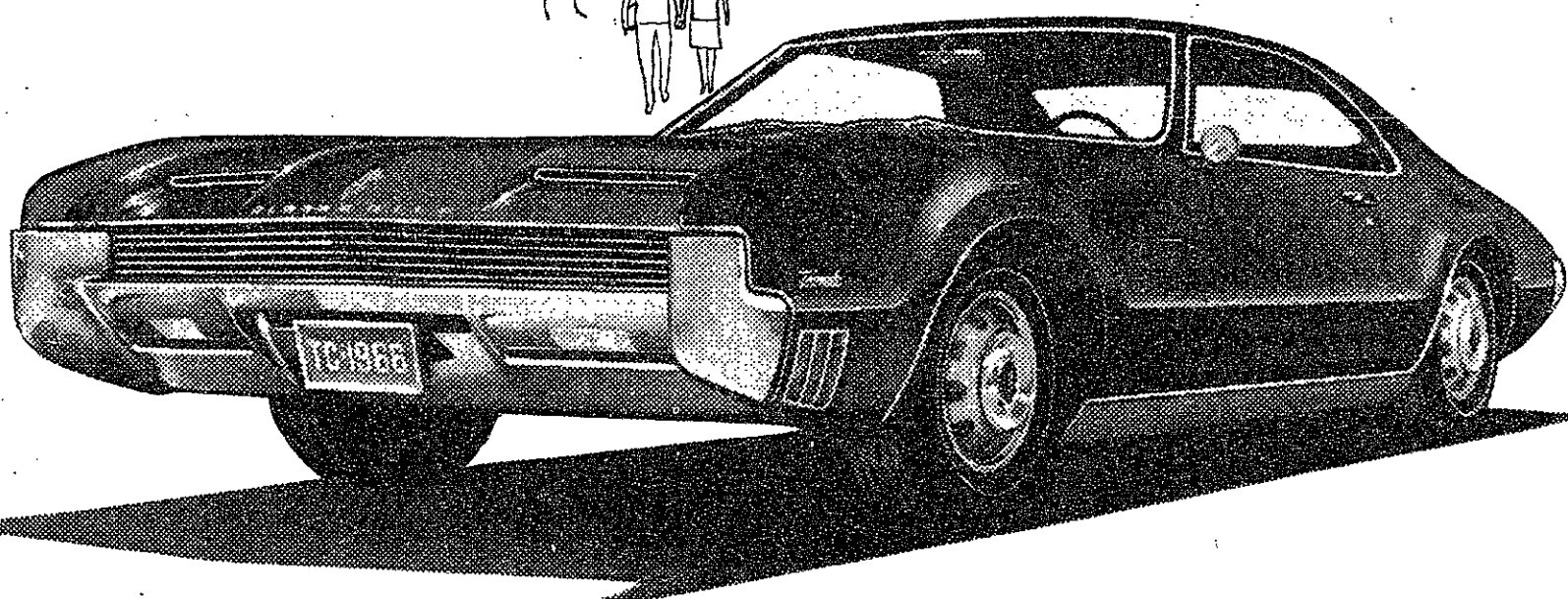
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Peter, Paul and Mary give lively performance

By Mona Dickson
Singing groups come and go, but Peter, Paul and Mary remain among the top performers in the country. After listening to them sing for two hours and then realizing which favorite songs they did not sing, one has some idea of the number of popular records they have put out. Last weekend's performance at the Back Bay Theatre was sold out both nights, packed with colleagues curious to see those famous voices in person. They got an interesting show. PP&M admittedly are constantly trying out new entertainment ideas, so it is difficult to tell when it is the act or their personalities showing. For instance, three minutes out on stage, Peter started yelling that the amplifying system was feeding back. Did he really lose his temper? A Tech audience would have thrown the situation back in his face, laughing; Sunday night's listeners were set back on their heels and didn't loosen up for an hour. Paul is the comedian. His skit, similar in attitude if not in content to that in their 'In Concert' album, was funny as a

whole, but a little too controversial in parts to be hilarious. Mary comes on like a shy discotheque dancer. Singing, she sets the mood; otherwise she steps back and lets the men do all the talking. She's a beatnik lass with an exuberant voice; it is too bad she had so little to do between songs. Aside from a 1930's labor songs hootenanny that did not go over with the audience as well as it might, PP&M sang only one new song, words by Peter, music by Paul and Mary. In the words of the French technician when they recorded it: "Typical naive American sentiments in the language of a ten-year-old French boy, but it's quaint." No matter what comes in between, when PP&M start to sing they shine. As dynamic as a group three times their size, exuberant enough to overcome static, they sang the recordings that made them famous, with a slight difference: it sounded better.

Music at mit... Unusual music by the usual quintet

By Dan Asimov
In the latest of its fine series of free chamber concerts, the Department of Humanities presented Soni Ventorum, the wind quintet in residence at the Conservatory of Music of Puerto Rico. They gave the concert in the Sala de Puerto Rico of the Student Center appropriately enough. Professor Tucker of the Music Department, acting as host, explained that he had heard the Quintet play when he was in Puerto Rico, and liked them so much that he invited them to come to MIT. It is fortunate that they accepted his invitation, for they gave a thoroughly pleasing performance. They played the six Haydn pieces with delicate clarity. The mechanical organ was invented at the end of the Eighteenth Century, and pieces were written for it by Mozart, Beethoven, and Haydn, to mention a few. It sounded pretty much like our contemporary organ, but Skowronek's arrangements sounded exactly like wind quintets. The Haydn 'Pieces for Mechanical Organ' included an Allegro that Haydn also used for the last movement of his Symphony 99.

SONI VENTURUM
Wind Quintet in residence at the Conservatory of Music of Puerto Rico
FELIX SKOWRONEK, Flute
WILLIAM MCCOILL, Clarinet
LAILA STORCH, Oboe
ROBERT BONNEVILLE, French Horn
ARTHUR GROSSMAN, Bassoon
PROGRAM
Pieces for Mechanical Organ (1793)
J. Haydn (1732-1809) arr. Skowronek
Vivace
Andante-Allegro
Allegretto
Fuga
Allegretto
Allegro
Trio for Flute, Clarinet and Bassoon (1928)
William Pijper (1894-1947)
Allegretto molto
Adagio
Doppio movimento
Quartet for Flute, Oboe, Clarinet and Bassoon (1928)
H. Villa Lobos (1887-)
Allegro non troppo
Lento
Allegro molto vivace
Antiphony, for Wind Quintet and Electronic Sounds (1960)
Ton de Leeuw (1924-)
Monday, November 22 at 8 pm
Sala de Puerto Rico, Student Center

rich in this piece, and it was played with noticeable feeling. The last piece may not have been the most beautiful, but it certainly was the most unusual. Ton de Leeuw (pronounced layoo) originally devised his 'Antiphony for Wind Quintet and Electronic Sounds' for a four-channel tape system, but since four-channel equipment was not available, they had to make do with two. The piece began with almost two minutes of pure tape, on which were strange bangs, crashes, and burps. Then the quintet came in, complementing the tape. The tape was played very competently by a standard Wollensak recorder. The sounds of this piece did not appear random at all. There was very definite continuity in the piece, and pleasing interplay between the tape and quintet. In fact, the structure of the piece allowed me to detect several of what I believe were timing errors (by the quintet, not the tape). Nevertheless they did a commendable job, for the score was incredibly difficult to follow. This concert was a pleasure to attend, and I can only thank the Department of Humanities for sponsoring it, and hope they will bring us equal entertainment in the future.

All in all, this was the most exciting of the six, and was hence played last to give us a good impression. The next piece was a trio by Pijper (pronounced piper). This work was characterized by the intricate use of the instruments and the wide range of sound conveyed. Soni Ventorum did a good job on this contemporary piece. The tone quality was excellent except for the flute, which seemed to have a rather poor timbre. The quartet by Villa-Lobos was, as Skowronek explained in his introduction, filled with Brazilian folk idioms, for the composer wrote in the style of his country. The tone of the group was very

MIT Outing Club to show tour slides

The MIT Outing Club will present a slide show in the Bush Room (10-105) Wednesday, December 8, at 8 pm. The slides will be of tours by members during the summer in the northwestern United States and British Columbia, and of summer mountaineering in McKinley National Park in Alaska, including several first ascents. Admission will be free.

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Talking Rock

By Don Davis

The Byrds' most recent recording, 'Turn! Turn! Turn!', now the nation's number one song, and its flip, 'She Don't Care About Time,' have added a new dimension to folk-rock. Before this double-barrelled religious hit, folk-rock consisted primarily of the protest and anti-protest songs penned by such writers as Bob Dylan, P.F. Sloan, and Mick Jagger, and love songs from such artists as Sonny Bono and the Lennon-McCartney team. The Byrds were instrumental in ushering in the revolution when their rock-up version of Dylan's 'Mr. Tambourine Man,' which concerned a dope-pusher, became folk-rock's first number one song. The California group's second hit, 'All I Really Want To Do,' was also a Dylan tune and made it into the nation's top ten.

'Turn! Turn! Turn!' which is subtitled 'To Everything There Is A Season,' draws its basic words from Ecclesiastes 3. Folk-singer Pete Seeger adapted the Biblical words and wrote the music to which the Byrds added a beat. The words in Ecclesiastes go "For everything there is a season, and a time for every matter under heaven: a time to love, and a time to hate. . . What gain has the worker from his toil?" The context of it is that there is plenty of time to enjoy life and plenty of things to enjoy and that man should obtain enjoyment from his

toils; however, as things stood at the time of the Biblical writing "all his days are full of pain, and his work is a vexation." Thus Seeger added the word "turn" to indicate that the theme was that man should turn from his habit of considering tooling a necessary evil and find enjoyment in it.

Even more ethnic is the flip-side, 'She Don't Care About Time,' written by Gene Clark, one of the Byrds. The first thing which strikes the listener is that the musical interlude between verses is clearly based upon the prevailing musical theme of "Jesu, Joy of Man's Desiring," the chorale from Bach's Cantata 147. Bach's steady triplets have been altered somewhat to facilitate dancing. The deep part of the song is the words. One translation of Bach gives the following words for the closing of the chorale: "Cares may vex and troubles grieve me, yet will Jesus never leave me. Him I never forsake, even though my heart should break." The narrator of the pop song finds this same spiritual timeless quality in his girl. The prevailing line of the song is "She'll always be there; my love don't care about time." Other lines which indicate that she is indeed a Christ symbol are "She is all that is mine," and "I see her all in my mind." In fact, throughout the song the person being discussed is never described as a girl but only as "my love" and "she."

These two songs, accompanied with the Beatles' "Yesterday" and the Baroque Beate Book, an album of the Beatles' music done by a British chamber music group, appear to be initiating a trend of combining classical music with pop tunes. Soon to be released is 'Prisoner of Chillon,' a folk-rock version of the Lord Byron poem, by the Bottoms, an upstate New York group. The last time that classical material seriously dented popular music was in 1961 when rock-and-roll piano versions of classical music, such as 'Bumble Boogie,' 'Nut Rocker,' and 'Like Long Hair,' became big pop hits.

Correction department: The T-Bones' 'No Matter What Shape (Your Stomach's In)' is from an Alka-Seltzer commercial, not an Aspirin commercial. The music is based upon the advertisement which gives humorous views of a large number of stomachs. The advertisement won an award at the 1965 American TV Commercial Festival.

Print Sale works include Picasso's

Picasso, Miro, Motherwell, and Baskin are among the artists whose works will highlight the fifth annual Print Sale. About 400 lithographs, etchings, and woodcuts, ranging in price from \$5 to \$100, have been gathered for the sale. New pictures will be hung as those sold are removed.

The sale, sponsored by the Museum Committee under the auspices of the MIT Art Committee, will run daily until Tuesday, December 21, from 10 am to 5 pm in Hayden Gallery.

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Symphony stretches its capacity

By David Groez

David Epstein's first season as conductor of the MIT Symphony Orchestra opened Saturday night with a concert at Kresge Auditorium. Mr. Epstein's choice of program was certainly ambitious. It included two Boston premieres of major modern works and the last Beethoven piano concerto, as well as an orchestral arrangement of portions of a baroque opera.

Unfortunately, the very beginning of the concert provided a rather good indication of what was to follow. This was provided by selections from Sir Thomas Beecham's 'Faithful Shepherd Suite,' an arrangement of parts of the early Handel opera. By the time arranger and orchestra were finished, there was little remaining of Handel's original. First, it was all too noticeable that the arrangement provided for an orchestra far too great in size to be compatible with the music. It is conceivable, however, that this difficulty might have been overcome by sufficient delicacy and sensitivity in the performance. But this was by no means the case. The orchestral sound was thick, but entirely lacking in true richness, thereby creating a sort of un-baroque effect as was possible. Throughout, the sound was dull and heavy, the orchestra showed a very small dynamical range, and in many cases even the intonation and wind-string balance were at a far from desirable level of quality.

In Charles Ives' programmatic third symphony, Mr. Epstein and his group fared little better. However, the timbre that the conductor was able to draw from his orchestra seemed far more appropriate than it was in the preceding piece. In particular, the audible tension in the sound was rather well adapted to the character of the symphony. However, Mr. Epstein again ran into technical difficulties. Problems in intonation and coordination cropped up constantly, and, especially in the first two movements, Ives' fine harmonic strands were al-

The MIT Symphony Orchestra
David Epstein, conducting
Suite from "The Faithful Shepherd"
Handel
Introduction and Fugue
Gavotte
Bourree
Minuet
Finale
Symphony No. 3 (The Camp Meeting)
Charles Ives
Old Folks Gatherin'
Children's Day
Conjunction
Piano Concerto No. 5 in E Flat Major (The Emperor)
Ludwig von Beethoven
Allegro
Adagio un poco mosso
Rondo: allegro
Second Suite for Orchestra
Walter Piston
Prelude
Sarabande
Intermezzo
Passepied and Fugue

most entirely obliterated.

The third work on the program was Beethoven's fifth piano concerto in E-flat, Op. 73, the 'Emperor,' with Howard Lebow, an American now at the University of Massachusetts, as soloist. Mr. Lebow turned in a creditable performance. His interpretation was soundly classical in nature. Moreover, his technique could not be faulted. However, the overall effect struck this listener as oddly detached, almost academic. At times, particularly in the first movement, Mr. Lebow's playing had a sort of light austerity. But whatever good was created by

the soloist was almost entirely destroyed by the orchestral accompaniment. Mr. Epstein did not fashion a proper rapport with the pianist. The orchestra repeatedly conflicted and was in poor balance with the soloist, and had its by now familiar difficulties in intonation and the like.

It was only in the final selection on the program, Walter Piston's second orchestral suite, that Mr. Epstein was able to transcend his technical problems. The work itself is in the form of an adapted baroque suite and is characterized by a modern presentation of earlier structural ideas. It was in this work that the orchestra found itself most at home. The first movement was powerfully performed, and even its fugue was well executed. The sarabande contains several fine woodwind solos. The brass came off well in its important sections in the third and fourth movements; and the counterpoint in the final fugue was well delineated.

In conclusion, Mr. Epstein is certainly to be credited with selecting an interesting and varied program, but in doing so he has taken up more than his forces can successfully handle at this point.



Photo by Bill Ingram
David Epstein conducts the MIT Symphony Orchestra in its first concert of the 1965-1966 season. Professor Epstein joined the MIT faculty this fall, and this Saturday's concert is his first performance at MIT.

MIT jazz band to give concert

The Techonians, MIT's concert jazz band, will play in Kresge Auditorium, at 8:30 pm, Friday.

Last winter the band competed in the Intercollegiate Jazz Festival at Villanova University, where they were one of the three top bands chosen by a panel of well-known jazzmen, including Stan Kenton. MIT students have shown increasing interest in the band: 40 students tried out for the five positions available this fall. The expanded and strengthened group is planning to participate in the festival again this year.

The Techonians are directed by Herb Pomeroy, who teaches at the Berklee School of Music and has a jazz program on WGBH.

The concert is open to the public without charge.

Movies and theatres

Astor—'Eva', 5:30, 7:30, 9:30

Beacon Hill—'Sunderella and the Golden Bra', 6, 8, 10.

Boston Cinerama—'The Hallelujah Trail', Wed. at 2 pm; Sat. Sun. and holidays at 1:30 and 5 pm; evenings at 8:30.

Brattle—'Carnival in Flanders' and 'Occurrence at Owl Creek Bridge' 5:30, 7:30, 9:30; Sat. mat. 3:30.

Capri—'You Must Be Joking', 10, 12, 2, 4, 6, 8, 10.

Center—'Beach Ball' and 'Living It Up' Cinema Kenmore Square—'Repulsion' 1:35, 3:35, 5:35, 7:35, 9:35.

Exeter—'The Eleanor Roosevelt Story', 4:05, 5:35, 7:45, 9:35.

Esquire—'Red Desert', 7, 9:30.

Fine Arts—'A Day at the Races', 'Purple Noon', 5, 7, 8:45.

Gary—'The Sound of Music,' eve. at 8:30; Sun. at 7:30; daily mat. at 2.

Loew's Orpheum—'Warlord', 5, 7:30, 9:55.

Mayflower—'The Collector', 10:30, 3:35, 6:05, 8:55; Sun. 1:10, 3:40, 6:10, 8:55.

Paramount—'Secret of My Success' and 'Walls of Hell', 9:30, 11:05, 12:37, 2:22, 4:24, 5:59, 7:51, 9:30.

Paris Cinema—'The Knack and How to Get It', 1:15, 3, 4:45, 6:30, 8:15, 10.

Park Square Cinema—'Red Desert', 1:30, 3:30, 5:30, 7:30, 9:30.

Savoy—'Cincinnati Kid', 10, 12, 2, 4, 6, 8, 10.

Saxon—'The Agony and the Ecstasy' evenings at 8:30; Sun. 7:30; mat. 2 pm Wed., Sat., Sun. and hol.

Uptown—'The Great Spy Mission' and 'Sands of Kalahari', 11, 12:40, 2:35, 4:10, 6:10, 7:55, 9:50.

West End Cinema—'Casanova', 11:00, 12:53, 2:55, 4:57, 6:59, 9:01.

THEATRES

Charles—'Poor Bitos,' Tues. thru Fri. 8:30; Sat. 5:30, 9; Sun. 7:30.

Shubert—'This is Baroque,' Mon. thru Sat. 8:30; matinee Wed. and Sat. at 2:30.

Theatre Company of Boston—opens Thursday at 7:30 Shakespeare's 'Measure for Measure,' Tues., Wed. Thurs., Fri. 8:30; Sat. 6, 9:30, Sun. 5, 8:30.



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Jazz...

Brubeck explores the world of jazz

It is quite a task to pass judgment on a performance when the performer himself is the standard of excellence for the medium. Even to say "Brubeck" and "excellence" in the same sentence might cause one to be labelled redundant. But redundant we must be, for Brubeck was indeed excellent. He led the quartet through intriguing and exciting explorations of their literature, weaving the fine thread of precise modern jazz through a framework based on the Baroque and strung with fibers of polytonality and polyrhythm.

The capacity audience in Kresge Auditorium responded enthusiastically to Brubeck's opening declaration that the accent for the evening would be on the quartet's newer musical endeavors. After opening with 'St. Louis Blues' and 'Gone With the Wind,' which were vehicles for several bars of very exhilarating polytonal block chording by Brubeck and some refreshing Baroque counterpoint between Brubeck and Desmond on sax, the group played an excerpt from a church service Brubeck is writing, which was also dotted with the Baroque. He employed full chords with prominent dissonances of minor seconds throughout the piece, creating a feeling of tight, compressed excitement. Though written in an asymmetrical meter, five-four, the composition swung gracefully until the final climax of a bass figure on the piano ending humbly on an unaccompanied note.

Another new composition, 'Cassandra,' followed. This was written for a film which tells the story of twin sisters—one naughty, one nice. The nice sister is characterized by a waltz, the other by a fox-trot. At the height of the tune, both sisters are portrayed simultaneously with the piano playing in three-four over the drums in four-four. The concluding selection of the concert, 'Someday My Prince Will Come,' brought a recurrence of this polyrhythm, as Brubeck played in swing-time against drummer Morello's three-four.

Paul Desmond, on alto saxophone, was as litting and lyrical as always, but his solos seemed somewhat lacking in depth, although he improved as the concert progressed.

Bassist Eugene Wright had an opportunity to display his fine tal-



Lighted by the chandelier in the East Room of the White House, the Dave Brubeck Quartet rocks out. Left to right are Joe Morello, drums; Eugene Wright, bass; Dave Brubeck, piano; and Paul Desmond, alto saxophone.

ent in a song called 'Something New.' His bright, witty solo incorporated everything from 'Jimmy Crack Corn' to 'Rhapsody in Blue.' His fine sense of humor was quite apparent as he ended the tune by loosening his E-string to hit the final low note, bringing a hearty chuckle from the audience.

Joe Morello, on drums, was perfect. His apparent nonchalance during difficult passages of asymmetry and polyrhythms was amazing. He played one extended solo, which brought the listeners to the edges of their seats, stupefying them with his tremendous speed, imagination, and sheer control of his instrument.

In an interview before the concert, Brubeck expressed his desire to incorporate all types of music into the jazz idiom. Friday night's performance was clear evidence of his success. The Quartet swung through everything from church music to Walt Disney in their own inimitable way,

calling upon the resources of fine musicianship, an infectious sense of humor, and a rapport among the members unequalled in the world of modern jazz.

It was my great pleasure to meet with Brubeck behind the microphones of WTBS. He had some very interesting opinions of all phases of the art, which he expressed to the interviewers, Professor David Epstein, of the MIT Music Department; Uncle Ed, of WTBS; and myself. The discussion will be rebroadcast in its entirety tomorrow night, Thursday, on the Jazz at Midnight Show over WTBS. It should be very enjoyable and enlightening listening, making clear the fact that Brubeck is not only one of our prominent jazz pianists, but a progressive, concerned, and compelling person as well.



Photo by Desmond Booth
Dave Brubeck converses with customers in the Coop record department on the afternoon of the concert.

Goldoni comedy at BU Theatre

'The Servant of Two Masters,' by Carlo Goldoni, 18th century Italian playwright, will be presented December 9-11, at the Boston University Theatre, 264 Huntington Avenue.

'The Servant of Two Masters,' as a play of pretence and manners, has been called by critics, such as Eric Bentley, one of the classics of 18th century drama.

Theodore Kazanoff, an assistant professor of theatre arts, is directing the production. The cast and production staff is composed of students from the Theatre Arts Division of the School of Fine and Applied Arts.

Curtain time is 8:30 p.m. Tickets are available at the box office, 264 Huntington Avenue. Prices are \$2.00, \$1.50, and \$1.00.

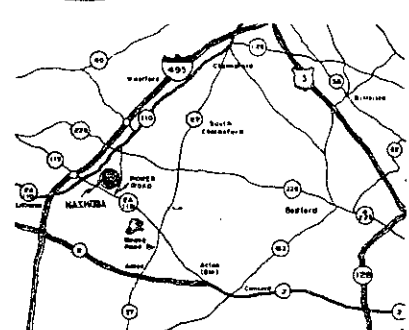
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Kresge

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Free

Friday, December 10

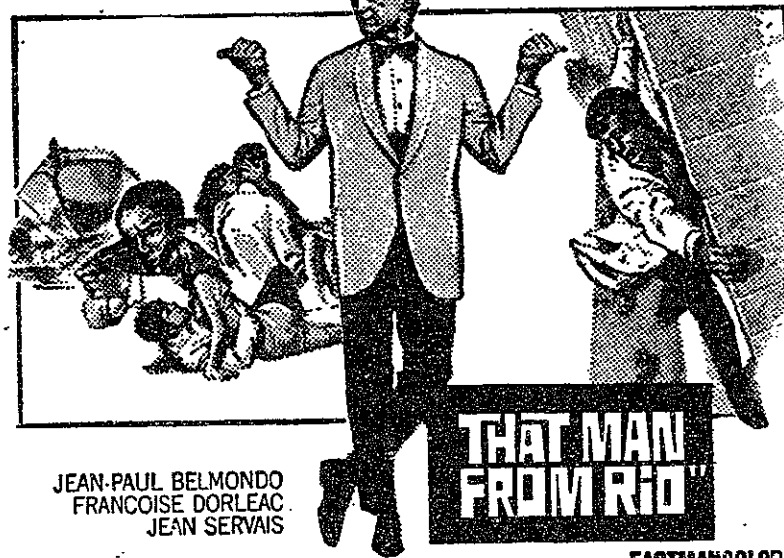
26-100

7:00 & 9:30

50c

MIT Identification Required

women to the right of him...women to the left of him...into the jaws of the improbable drops That Man From Rio!!!



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FRANCOISE DORLEAC
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Saturday, December 11

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Sunday, December 12

Phantom of The Opera

and

Dante's Inferno

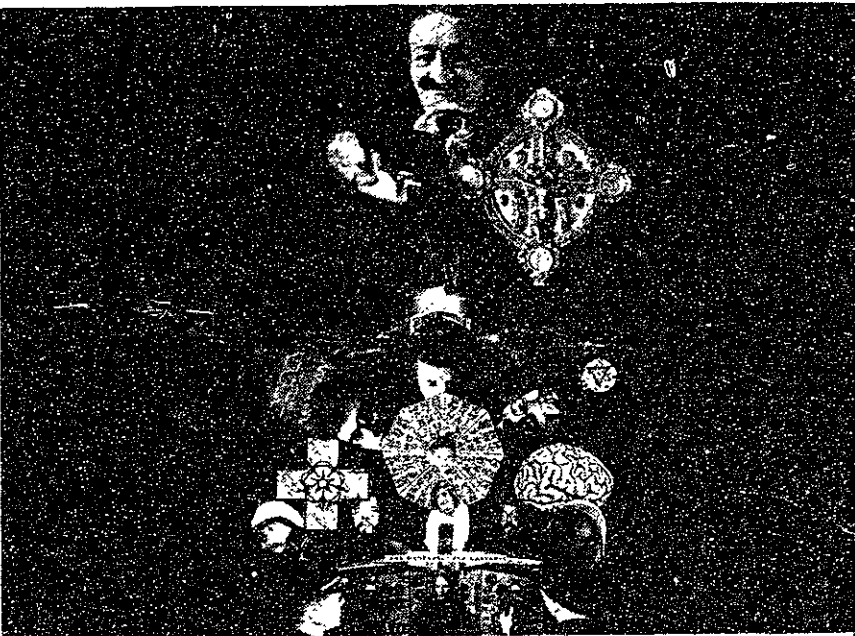
10-250

8:00

50c

BBC FILM AGAIN January 12

Art of the future



It's anybody's guess what is going on in this preview of 'Hubbub.' The 'film' is a new experience in art plotted by the MIT Humanities Department, to take place in Kresge Auditorium tomorrow evening at 8:30 pm.

'Hubbub' combines variety of media in artistic experiment at Kresge

'Hubbub,' a multi-channel media-mix of film, tape, oscilloscope, stroboscope, kinetic and live images, will be presented by W. E. Usco in Kresge Auditorium tomorrow at 8:30 pm. Usco is a group of about twenty people; poet-sculptor Gerd Stern is one of the principal members, and an originator of the audio-visual college technique.

In 'Hubbub' the effects of the various media are explored in six integrated movements, each combining a different set of media. The titles of the movements are 'Cathode Ray,' 'Highfreethruseaway,' 'Y,' 'Ghost Rev,' 'Diffraction Film,' and 'Only.' The material for the presentation is contributed by many people working individually or in groups all over the country and is assembled by Usco at Garnerville, New York.

Media-mixes by Usco have been performed at the San Francisco Museum of Art, the Vancouver Arts Festival, the University of Wisconsin, the University of Rochester, Brandeis University, and the Psychedelic Theatre. Previous presentations have been titled, 'Who R U? and What's Happening?' 'The Verbal American Landscape,' 'Yield,' 'Fourthreetwoone,' and 'We Are All One.' 'Hubbub' was premiered at the Film-Makers' Cinematheque in New York City November 17, and was performed yesterday at the Rhode Island School of Design.

The presentation is sponsored by the MIT Humanities Department. MIT students with identification may obtain free tickets in the Lobby of Building 10.

Hootenanny at the Ear: all entertainers welcome

Hootenanny comes to MIT Saturday night at The Thirsty Ear, as the graduate student operated pub at 305 Memorial Drive throws open its doors to any and all would-be entertainers.

The Ear has been going strong since beer returned to the scene about a month ago. Attendance has been up, and the atmosphere has been noticeably improved.

The Hootenanny idea is a new one for the Ear, with totally unpredictable results. Entertainment manager Rick Reilly, a Course VI grad student, says that all a group or individual has to do is to show up with instruments and perhaps a little bit of talent for something

or other. "This could be a real blast," commented another Ear Committee member. "You never know what will turn up at MIT."

The Ear will have its usual regular entertainment Friday evening, with Paula Willmore returning for an evening of folksinging. There will be no activity during Christmas vacation, but the Pub will be in regular operation during the dreary weeks before finals.

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Kaufman and Hart opens at Dramashop in Little Theatre

The MIT Dramashop will open tonight in the Little Theater of Kresge Auditorium with 'You Can't Take It With You' as its first major production of the year. The 1937 comedy is about the eccentric Vanderhof family and its doings. It is set just around the corner from Columbia University in their every-man-for-himself living room where there is ballet dancing, xylophone practice, portrait painting, play writing, and even a printing press. Their free-wheeling life is complicated by a love interest between the daughter and the son of a very proper and rich old New York family.

This uproarious comedy by George S. Kaufman and Moss Hart is directed by Professor Joseph D. Everingham. The set design is by Peter Wolfe '66, lighting is by Alan Hirsch '66, and the costumes are designed by Bari Skinner '66.

'You Can't Take It With You' will run through Saturday. Curtain time is 8:30 and tickets are \$1.50. For reservations call x2910.

Debate team takes 1st in Tufts tourney

The MIT Debate Society scored third place in the Air Force Academy tournament, and first in the Tufts University tournament this weekend.

The team of Jim Foster '67 and Bill Arthur '69 took first place at the Tufts University tournament. In the Air Force tournament, which is highly regarded in debating circles, MIT placed first in the elimination rounds by winning all six qualifying bouts. The team, composed of MIT's top debaters, Eric Johnson '67 and Roger Kirst '67, placed third in the final standings. Johnson was ranked third and Kirst fifth in the individual speaker standings.

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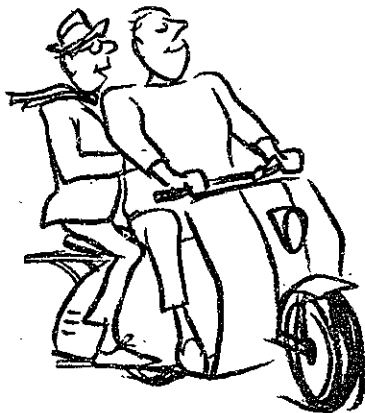
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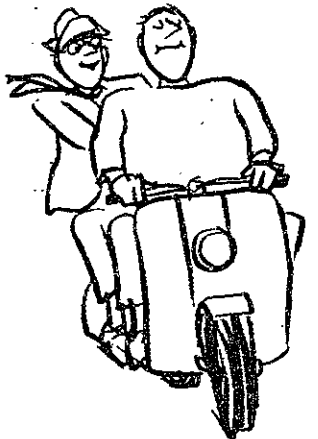
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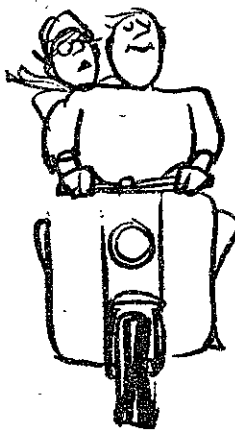
1. Is it true you're planning to get engaged?

I'm on the brink of giving Jane my Beethoven sweatshirt.



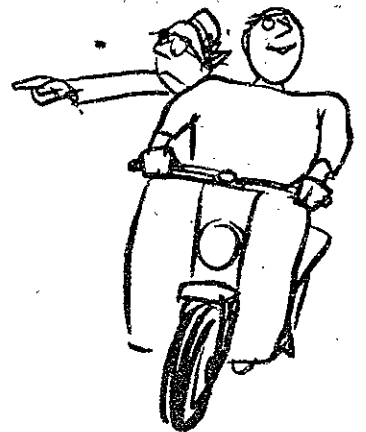
2. How are you going to guarantee security to your family when you're married?

I have a rich aunt, you know.



3. What about money for your children's education?

My Uncle Henry is very fond of me. He owns a steel mill.



4. Who'd pay off your mortgage if you should die?

You never can tell. Every time I help an old man across the street I give him my name and address in case he doesn't have anyone to leave his money to.



5. I know something that can help you meet almost all your financial needs. And be independent, too.

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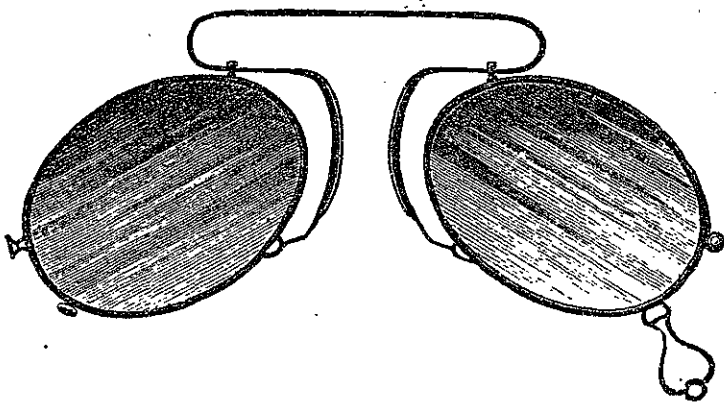
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I wonder if Uncle Henry has it?

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THIS WEEK MUSIC

New England Conservatory—Program of vocal and instrumental music; featuring Faure, 'Dolly Suite for Piano Duo,' op. 56; Beethoven, '15 Variations mit einer Fuge,' op. 35; Stravinsky, 'Octet for Wind Instruments,' Dec. 8, 8:30 pm; Jordan Hall; admission free.

New England Conservatory—Annual Christmas Concert, Lorna Cooke de Varon, conductor. Gabrieli, 'Jubilate Deo'; Bach, 'Simeon Dem Heru'; Tadeusz Baird, 'Exhortation'; Ingvar Lidholm, 'Lauda'; motets and modern English carols, Dec. 8, 8:30 pm; Jordan Hall; admission free.

MIT Concert Jazz Band—The Technicians, Dec. 10, 8:30 pm; Kresge Auditorium; admission free.

New England Conservatory—Flute recital by Idelfonso Torres Leonon. Dec. 13, 8:30 pm; Jordan Hall; admission free; program: J. S. Bach's Sonata VI for flute, harpsichord, and bass continuo; Charles Griffes' 'Tone Poem' for flute and piano; works by Prokofiev and Carl Nielsen.

Boston Symphony Orchestra—Concerts in Symphony Hall: Dec. 14, with Claude Franke, soloist; Dec. 16; and Dec. 17-18; Joseph Silverstein, soloist;

THEATRES

Dramashop—'You Can't Take It With You,' by Moss Hart and George S. Kaufman; Dec. 8-11, 8:30 pm; Kresge Little Theatre.

Brandeis University—'Volpone,' by Ben Jonson; with Morris Carnovsky; until Dec. 13, 8:30 pm; Springfield Me-

morial Theatre; admission \$2.00.
Boston University—'The Servant of Two Masters,' by Carlo Goldoni; Dec. 9-11, 8:30 pm; BU Theatre, 264 Huntington Ave.; admission \$1.00, \$2.00, \$1.50.
Tufts Arena Theatre—'The House of Bernarda Alba,' by Federico Garcia Lorca; Dec. 8-11 at 8:30 pm; Dec. 11 at 2:15 pm; tickets, \$1.00 to \$2.00; 623-3850.

LECTURES

Ford Hall Forum—Paul Goodman, 'Re-volt on the College Campus,' Dec. 12, 8 p.m., Jordan Hall. Admission free.

Brandeis—William H. Ottenberger, 'Boston Attacks the Problems of Urban Education,' Dec. 14, 8:15 p.m., Olin-Sang Center. Admission free.

Institute of Contemporary Art—Allan Kaprow, 'The Art of Boredom in Art,' Dec. 13, 8 pm; New England Life Hall; admission \$1.00 for students; \$1.50 general.

MISCELLANEOUS

LSC—'That Man From Rio,' Dec. 10, 7 and 9:30 p.m.; 26-100. Admission \$5.00.

LSC—'How to Murder Your Wife,' Dec. 11, 5:15, 7:30, and 9:45 p.m.; 26-100. Admission \$5.00.

LSC—'The Phantom of the Opera,' 'Dante's Inferno,' Dec. 12, 8 p.m., 10-250. Admission \$5.00.

MIT Film Society—'Happening,' by Michael Hirsch, Saul Levine, Richard Turner, and William Sarrell; Dec. 13, 8:30; Room 54-100; admission \$1.50.

NEXT WEEK MUSIC

New England Conservatory—Symphony Orchestra, Frederick Prausnitz, conducting; Dec. 15, 8:30 pm; Jordan Hall; admission free. Program: Wagner's 'Faust Overture,' Berg's Violin Concerto, Strauss' 'Four Last Songs.'

New England Conservatory Opera Theatre—Humper's 'Hansel and Gretel.'

Boston Ballet Company—'The Nutcracker,' Tchaikowski; with Maria Tallchief; Dec. 19, 4 pm; Back Bay Theatre; for tickets call LI 2-0174.

LECTURES

Ford Hall Forum—Morris Carnovsky and Elliot Norton; Dec. 19, 8 pm; Jordan Hall; admission free.

experimental films...

Stan Brakhage: artistic courage

By Ric Klass

Stan Brakhage showed his major experimental films Nov. 19 at the Odd Fellows Hall in Cambridge. The first six were 16mm films, two of which had sound, and three of which were in color. The first movie was 'Fire of Water.' The entire movie was beams of light in a black background and illumination of a house by lightning. At the end of the movie, the scene was shown in daylight, accompanied by the sound of a dog barking which Mr. Brakhage later informed me was the speeded up sound of a woman's cries during labor. The second movie was 'Thigh Lyre Triangular,' which had as its theme the beauty and innocence of youth. Between whirling flashes of colors resembling static on a color TV, the birth of a baby was shown. The camera caught both the pain and the joy of the mother as she gave birth to a son.

'Blue Moses' came the closest to having a plot. It is a movie of visual paradoxes in which an actor, Robert Preston, follows a track of dirt road which is supposed to be the film track.

The movie was impressive in its double exposures and the unusual shots of the actor fading in and out in various disguises. Still, the film made no real point.

In 'Dog Starman,' Brakhage again showed his interest in the innocence of youth in some very nice sequences of a baby intertwined with shots of a forest and a snowflake. The last two movies were 'Mothlight,' and 'Pasht.' In the former, moth wings and other shapes flickered and twirled for several minutes (intended to represent a Bach fugue, Mr. Brakhage told me in private) and the latter was the somewhat suggestive contortions of a red blob. The total effect of the films was a general respect for nature and a general lack of respect for the audience. The flickering and the sudden movements of the camera tended to strain the eyes. The twirling and the TV static effect of bright colors only served to obscure whatever theme was trying to be shown and added a

dreamlike effect.

After intermission, an 8mm film, '15 Song Traits,' which is a series of film portraits of Brakhage's family and friends, was shown. They were filmed because of what Brakhage called "a desire to see deeper into the things I care about." The scenes were filmed with a fine sensitivity. The happiness of Brakhage's wife with their children, including a scene of his wife suckling their baby boy, emphasized the film-maker's feelings for the purity of love and the innocence of children. Yet, long scenes of his children playing in the snow make me wonder if anyone else would dare show pictures of the family and friends at two bucks a head and if Brakhage, when he said, "These are home movies," should have, indeed, left them at home.

'Future employer demands a 5.0'; no social life for 90% of Techmen

(Continued from Page 8)

invention in the United States. MIT is awake, twenty-four hours a day, including weekends. The lights shine all night, from library to laboratory. The Tech student is totally devoted to research and study.

Tech too! talks

Charles Niessen '62 explained that, as he is an individualist and little attracted by social life, he chose a single room in an Institute dormitory rather than "descend into one of the 28 fraternities on campus. What a surprise the first year was. Nine hours of math each week, eleven hours of physics, eleven hours of chemistry, eight hours of humanities—and all this required.

"The humanities particularly bothered me, as I am more interested in the quantitative aspects of things. I had to read about the Peloponnesian Wars, Plato, Dante, the Confessions of St. Augustine, about two or three books a month; and chemistry and physics labs besides, requiring typed lab reports of minimum 15 pages per exercise. Finally, as an elective, I chose 6.41 (Introduction to Automatic Computation). What fun it was to fool around with a million dollar machine.

"At MIT we have quizzes at least weekly, and since these exams are taken very seriously (only grades count at MIT), I generally worked each night until 2 a.m."

Summer escape

During the summer, instead of staying at Tech with one-third of his fellow students, Charles went home to see his parents and his girl friend in Minnesota. He worked at Remington constructing digital circuits for \$70 a week. For the following 2 years he pursued his studies with unbounded devotion. "If your grades drop, you can always be kicked out. And it's not enough these days just to have a diploma; the future employer demands a 5.0 MA. "Charles got all A's, except of course B's in humanities. After 4 years he received the SB degree.

Grades at MIT

"For my thesis project, from among the 100 proposed ideas, I chose an experimental topic; a radar surveillance system which would record raindrops. I got an A on it, graduating with a 4.9.

Since there are no absolute grades, only class average counts. Thus each student fears that the next will study more than he, and raise the class average to his disadvantage. This is why the competition is so tough.

"A New Race of Engineers" "I had studied so well that I felt morally obligated to continue, and besides that my courses interested me tremendously, especially 6.55 (Linear Systems Theory) and 6.574 (Transmission of Information). Only at MIT can you learn information like that. I

applied for a scholarship, married my girl-friend, who was 21 (just a year younger than I), and we settled down in a Boston apartment. What a change after four years of dormitory living!

"I became a lab instructor while working closely with the pioneers of information theory. I had yet one hurdle: the doctoral exams. The nights I spent biting my nails! But I made it. My thesis topic was the development of a system of stimuli on computers for the study of sequential coding. I think of myself as an engineer, but at MIT one knows not where the scientist ends and the engineer begins.

"MIT's environment is exceptional. Among the 1054 professors and 2441 instructors can be found extraordinary personalities, some at the heads of gigantic laboratories. Thus 18-year-old freshmen have the privilege of working modestly on grandiose projects in the shadows of men who incarnate the typical genius of MIT's new ideal."

The MIT man has no life. Intellectually he is quick, practical, impatient, and a bit boastful. He lives in generally wretched surroundings, and doesn't even realize it.

Mixers

Many students share the expense of buying a used car to get them to Wellesley on Friday and Saturday nights, to find girls for the Tech "mixers". This barbaric term refers to the parties which occur frequently in the fraternity houses or in Institute buildings. There we find very proper young ladies dancing the twist with boys who are terribly clumsy, constricted, and embarrassed; even here there is competition. In fact, 90% of the undergraduates have no relations with girls during their four years of study; yet after graduation, half of them marry.

As MIT cultivates the new engineer, it creates a new being, based on the integration of the physical sciences, the life sciences, the social sciences, and the humanities.

(Ed. Note: The article carried several pictures around the Institute, which we cannot reprint. However, the captions tell the story...)

Music Library: In the middle of this vast factory of thought, an oasis: the comfortable auditorium where, dead of fatigue, students relax in the shadows and ask of Bach and Beethoven momentary relief from the harassing work, from the merciless competition, from the inflexible exams.

Mixer: In an MIT fraternity, where the rites of initiation remain secret, a mixer is held on Saturday night with several students and girls from Wellesley. Whether he is on the playing field or at a dance, the Tech engineer remains the most absorbed and the least sociable of all American students.

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Anything goes in Tech 'Crowd-ball'

By Bob Horvitz
55 Years Ago

... the big thing in MIT athletics was "Crowd-ball." The game was played on a football field and had "no rules whatsoever." The Crowd-ball itself was an "inflated leather thing 24 inches in diameter." The two opposing teams were allowed to be of any size, as long as they were equal. The object of the game was to push, kick, throw, or carry the ball beyond the opponent's goal post, with no downs called, and all tactics fair.

35 years ago

... as a Tech janitor was making his last rounds of the evening, he saw a "hideous, gray rat over a foot long and dripping wet go scurrying across the floor. Mindful of the damage such an undesirable creature could confer, he chased the vermin into one of the telephone booths at the end of the building, and slammed the door shut.

"Then he went to summon aid. The head janitor of Building One, together with the janitor from the adjoining building, arrived on the scene armed with heavy wooden clubs and ready for action. Elaborate plans were laid and the men took their positions.

"A janitor, with club raised, stood on either side of the booth, while the one who first saw the creature approached the door and slowly opened it just enough for the rat to squeeze out. The scene presented a vivid tableau as the trio waited breathlessly for the exit of the monster.

"Suddenly out swished the rat through the opening. Two clubs came down with the force of a pile drive, resounding through the halls with one dull thud as they

hit the floor together—and missed the rat which had successfully dogged its captors and went scurrying off-whence it had come."

... the Tech spirit of innovation obviously prevailed. The exceedingly coldness of the Tech dorm rooms every morning was concluded to be the primary deterrent to students who really desired to get out of bed and attend a few classes. One Techman's solution to this problem was published in the December 6, 1930 issue of the Tech in the hope of aiding the rest of the student body.

This enterprising engineer used his "alarm clock to perform the task of turning on the heat and closing the window a half hour before rising time. The clock tripped a large weight, which in turn pulled down the window and turned on the radiator, so that, a half hour later, a warm room awaited the late riser. This man then had no fear of being late to his first class because of hesitation to leave a warm bed for a cold room."

20 years ago

... the following article appeared

in a weekly feature entitled "Department of Sweet Nothings":

"At a recent Glee Club dance we were enjoying ourselves immensely, and noticed that everyone else was doing likewise. One fellow in particular, dancing cheek to cheek with his date, looked very happy about the whole affair.

"He wore a smile of ultimate satisfaction, his eyes were closed, and he had a glow of complete enjoyment all over.

"As we walked past, he opened his lips to speak, and we waited breathlessly for the expected utterance of devotion. What we heard left us temporarily stunned. Said he, in true Tech tradition, to his fair lady, "I bet you don't know what the natural logarithm of 'e' is."

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Inner planets present problems

(Continued from Page 8)

(Mercury and Venus) has always been difficult because they were always obtained looking into the sun. The outer planets do not present this problem since they can be observed at midnight looking away from the sun.

The agreement between previous optical observations of Mer-

cury's rotation rate and the new radar figure was found from a re-analysis by Dr. W. E. Mc Govern of New York University, Dr. S. H. Gross of Airborne Instruments Laboratory, Melville, N.Y., and Dr. S. I. Rasool of the National Aeronautics and Space Administration's Goddard Space Flight Center.

M.I.T. DRAMASHOP "YOU CAN'T TAKE IT WITH YOU"

By Kaufman & Hart

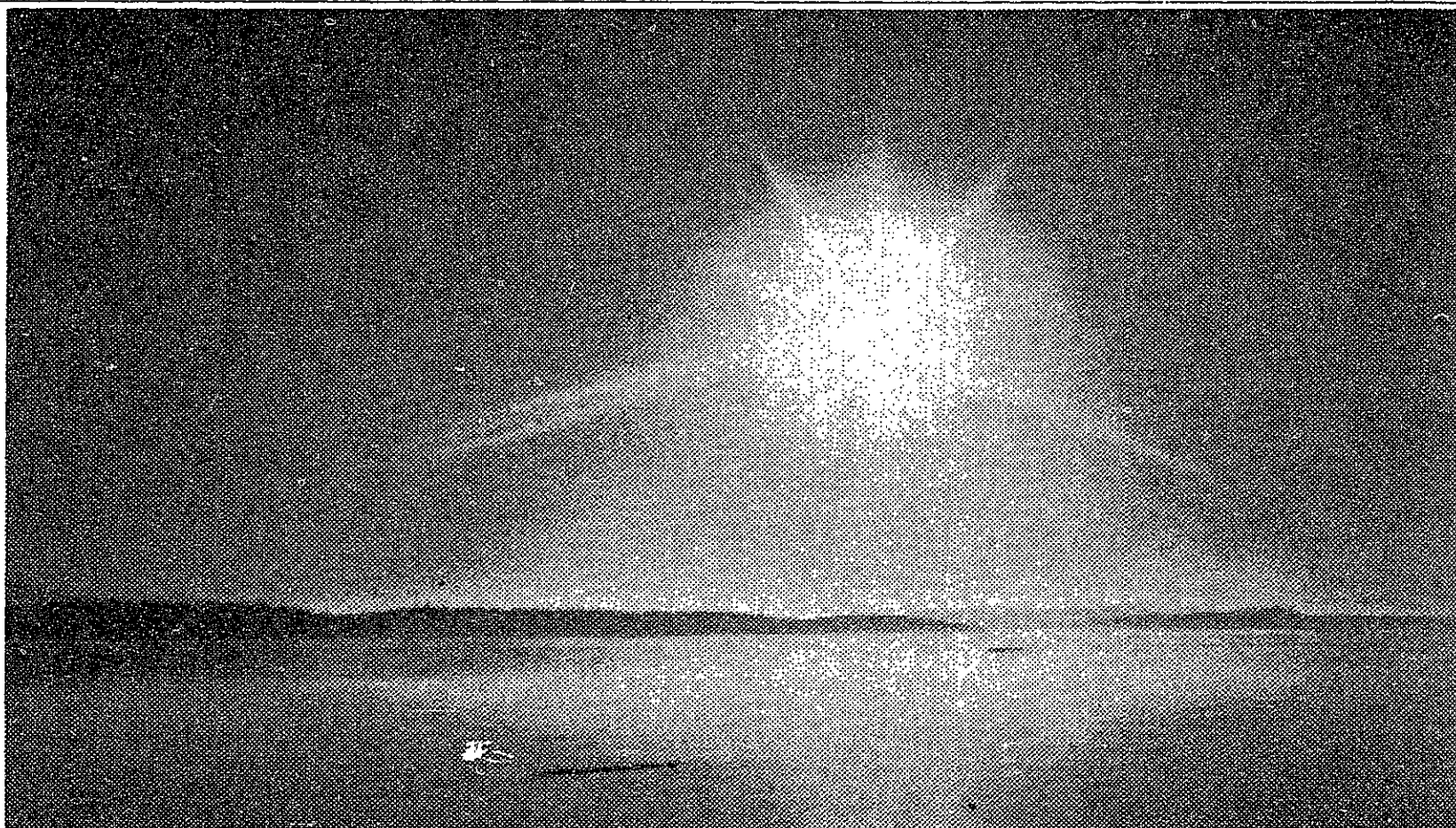
Directed by Joseph Everingham

Wed., Dec. 8—Sat., Dec. 11
at 8:30 P.M.

Little Theatre, Kresge Auditorium

Admission—\$1.50

Reservations: MIT Ext. 2910



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The Bulletin Board . . .

(Continued from Page 6)

5:00 pm—MIT Outing Club Meeting. Student Center, Room 491.

7:10:00 pm—Tech Show Auditions. Kresge Auditorium.

7:30 pm—Handel's "Messiah:" Sight-reading by the MIT Symphony Orchestra, Glee Club, and Choral Society. Open only to members of the participating groups. Kresge Auditorium.

8:00 pm—Mathematics Club. Lecture: Network Theory—a Practical Application of Algebraic Topology. Speaker: Dr. Frank Branin, Problem Oriented Programming, Systems Development Division of IBM. Refreshments. Room 2-390.

8:00 pm—Parapsychological Research Group Meeting. The Jackson Room, 10-280.

8:30 pm—A "Happening:" an evening of multiple screen projection, shadow dances, and expanded cinema presented by the

MIT Film Society. Admission: \$1.50. Earth Science Building, Room 100.

Tuesday, December 14

11:00 am—MIT Christmas Convocation. Refreshments. Kresge Auditorium.

4:00 pm—Association of Women Students: Tea. Student Center, Room — Mezzanine Lounge and Game Room (level 4).

5:00 pm—Tau Beta Pi Meeting. Student Center, Room 407.

5:00 pm—Eta Kappa Nu presents "Some Scientific Methods of Job Interviews." Speaker: Mr. Carlisle, MIT. Kresge, Little Theatre.

5:00 pm—MIT Glee Club Rehearsal. Kresge Auditorium.

5:30 pm—Hellenic Students and Scholars Lecture: Archeology of Cyprus. Speaker: Prof. Dikaos, Princeton Institute for Advanced Studies. Refreshments. Student Center, West Lounge (level 3).

7:00 pm—Zeamer Squadron Meeting. Student Center, Room 491.

7:10:00 pm—Tech Show Auditions. Kresge Auditorium.

7:15 pm—Christian Science Service. MIT Chapel.

7:30 pm—MIT Symphony Orchestra Rehearsal. Kresge Auditorium.

7:30 pm—MIT Sports Car Club. Student Center, Room 467.

On flashing lights

Doc Edgerton goes out to sea

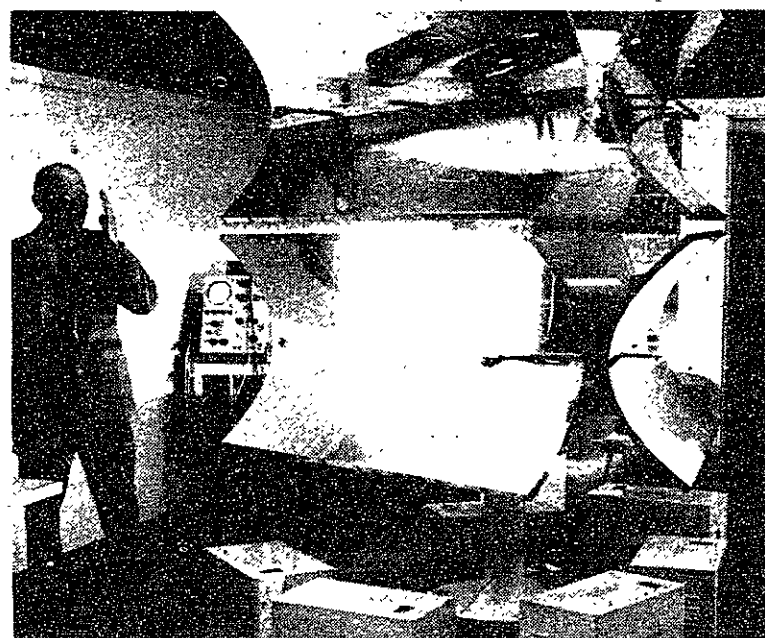
By Owen Franken

From mapping the bottom of Boston Harbor, to protecting ships in Chesapeake Bay, the work of Dr. Harold Edgerton, Professor of Electrical Engineering, can be seen expanding in many new and varied directions.

The U.S. Coast Guard has recently installed, on a Texas tower near the mouth of Chesapeake Bay, a warning light system designed by Dr. Edgerton and his associates at Edgerton Germeschausen, and Grier, Inc.

The light source consists of six xenon flashtubes, each four feet long and one-half inch in diameter. The tubes are backed by five-foot-long parabolic reflectors. The beacons are placed in two rows, one above the other, and three pairs of the lights are placed edge to edge to form an equilateral triangle. The strobes in each triangle simultaneously emit short flashes of light at a rate of forty bursts per minute. In good weather only one row of lights is needed, but under poor weather conditions, both sets of strobes are used. These lights can be seen from a distance of over forty miles.

Lights like these were success-



Dr. Harold Edgerton is shown shielding himself from the light of a warning system designed by him and his associates at E. G. & G., Inc. The xenon tube beacons have been installed at the mouth of Chesapeake Bay by the U.S. Coast Guard.

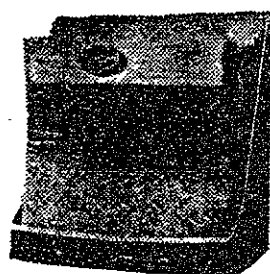
fully tested from Gray's Light in Boston Harbor and from the John Hancock Building during the summer of 1964. The xenon strobes were found to be effective beacons because they were easy to see and especially easy to distinguish from other lights, since they emit a penetrating blue-white light. The strobes have the advantage of being very efficient with low power input. The present lights operate at 500 watt-seconds. The power input can be increased to increase the brightness of the lights, but the color doesn't change. Thus the penetrating blue-white light remains as a distinctive feature re-

gardless of the brightness. Most importantly, the xenon tubes will, in Dr. Edgerton's words, "keep flashing forever—well, at least for a long time."

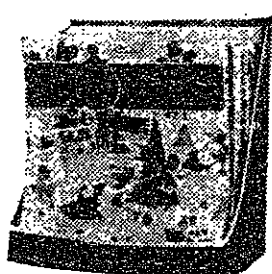
A bare flashtube, sans reflector, has flashed approximately 11 million times from its present location atop the Prudential Building. The flashes can be seen from as far away as Hartford, Connecticut. What is seen from the ground is not the flashing tube itself, but rather the light reflecting from poles on the roof of the building. "The direct light from the xenon tubes," said Dr. Edgerton, "would blind us."

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THE TECH COOP
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College World

(Continued from Page 7)

"the American unmarried virgin would disappear by 1960." Miss Greene informed her readers that this "just isn't true."

National trends

On national sex trends, Brian Anderson quoted some interesting facts. The president of Vassar College suggested that "those who indulge in excessive drinking and premarital sex relations withdraw voluntarily." Though no one knows how many girls responded, Dr. Graham Blaine, Harvard-Radcliffe psychiatrist, would estimate 50% on sex alone. Blaine estimates "that within the last 15 years the number of women who had intercourse before graduation rose from 25% to 40%, while the number of college men involved in premarital sex relations rose from 50% to 60%."

The general trend seems to be that women "do not have as much difficulty restraining themselves as is generally believed." "This trend in sexuality, as Blaine calls it, has been felt on campuses throughout the nation—from Augustana College where on-campus dancing was approved in 1963 to Brown University which received national publicity for issuing birth control pills this fall."

Visiting regulations

The greatest stir has been caused by the controversy over visiting regulations in dormitories. The conflict over Harvard's parietals is well known. A rule was passed at Maryland University in 1963 "forbidding undergraduate women from staying overnight in hotels, motels or other public lodgings unless they had written permission or were accompanied by their parents."

Minnesota is not without its closed door conflict. School regulations require that doors in dormitories remain open 45 degrees when members of the opposite sex are together. The Dorm Council wanted it closed to allow for "greater privacy." Administrators were generally opposed. After a number of weeks of discussion, the issue came to a vote before

the Senate Committee of Student Affairs, a faculty-student organization. The students were willing to compromise on a "part way" policy—which they interpreted as one inch. The faculty and administrators were aligned against the plan. When the votes were counted, the "part way" plan won. "There just happened to be more students there that day." The Dean of Students nullified the vote and 45 degrees remains the line of demarcation.

Confidential

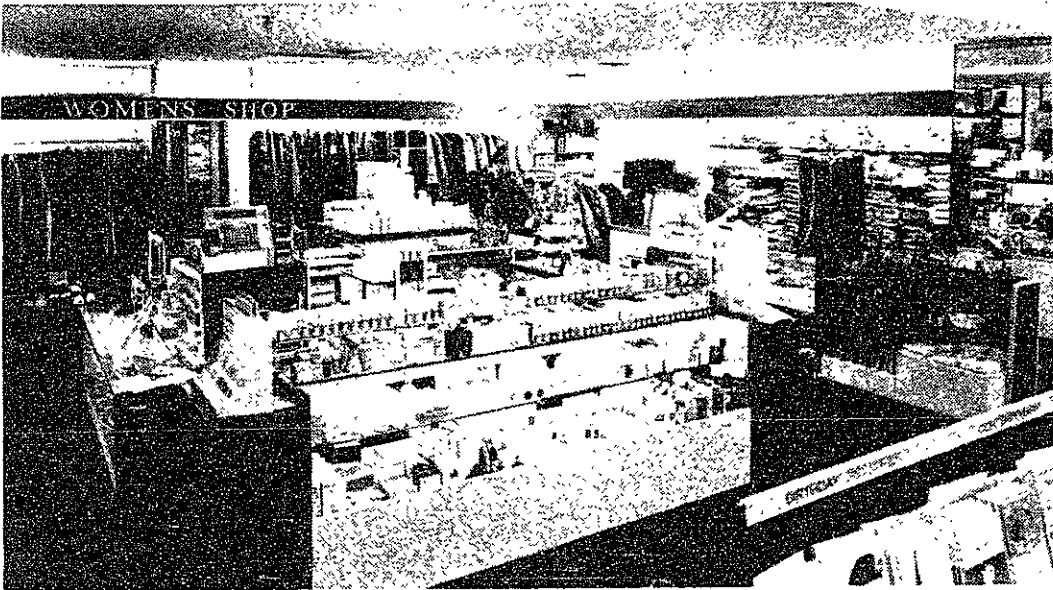
"According to the University Health Service, all records and statistics are confidential, but records on venereal disease, unwed mothers and birth control are 'super confidential.' This is reassuring. The health service seeks to care for unwed mothers and venereal diseases. Incidentally, predominant sex crime on the campus has been "exhibitionism."

Of the 362 married students in one dormitory, only 12 wives are full time students. "Of these, one is a widow and four are divorcees."

The Minnesota Daily went on to interview none other than Abigail Van Buren, known to millions as Dear Abby. For those who are not already familiar with her views, they are referred to almost any major daily. The columnist offered a synopsis of her position on the sex and college question. She even related a letter received from one of the University coeds: "My boyfriend and I are engaged. We don't want children, and I have been taking birth control pills. Should he pay for part of them? I don't know him well enough to ask for money."

In the 'Sex and the College Girl' review, Miss Nussbaum made the point that it "offers no spectacular revelations on the already overworked subject of sex on campus, but it's entertaining. If you've nothing better to do, read it for jollies." This may also be applied to Minnesota Daily editions devoted to the subject, and all we can add is "Amen."

A boutique of feminine delights



Thoughtful men who want to gift their favorite girls, and discerning ladies who deserve pampering should visit the Women's Department at the new Tech Coop. Featuring fine quality casual clothing, delightfully packaged scents and cosmetics, pretty lingerie and underpinnings, and all manner of accessories, the Women's Department is stocked with everything to please and outfit a woman.

Male visitors will find helpful sales people ready to assist in

selecting and wrapping gifts, and for female members of the MIT community there are large dressing rooms with triple view mirrors.

When you come to the Women's Boutique at the Tech Coop, you'll find all the merchandise we've listed here, and more.

FRAGRANCES by
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 Revlon: Intimate, Aquamarine
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 French and English Saddle
 Leathers, American Leather-
 likes \$6 to \$25
 Lingerie, wispy watercolors by
 Aristocrat, Vanity Fair
 Slippers \$3 to \$9
 Bathrobes, be-ribboned or tail-
 ored, by Campus Girl, \$7 to
 \$17
 Cosmetics by Revlon, Elizabeth
 Arden
 Hosiery by Gordon, Hanes
 Blouses by Ellen Tracy, Ship and
 Shore, Jayson Classics, Pilot
 Majestic, \$4 to \$8
 Sweaters by Premier, Brownie
 Mills, Pendleton, Evan Picone
 \$9 to \$25
 Suits, shifts, coordinated casual
 and sportswear by Evan Pi-
 cone, Majestic, Pendleton
 London Fog Raincoats \$37.50
 Ski Wear by Franconia
 Lady Bostonian Loafers \$10.95
 & \$11.95

new December hours: 8:50 am to 5:30 pm

On Deck

Wednesday, Dec. 8
Basketball (F) — Phillips Exeter, Away, 3:30 pm
Wrestling (V)—WPI, Home, 7 pm
Wrestling (F)—WPI, Home, 5 pm
Swimming (V)—Tufts, Away, 8:30
Swimming (F)—Tufts, Away, 7 pm
Track (V) & (F)—Boston College, Home, 6:00 pm
Fencing (V)—Harvard, Away, 7 pm

Thursday, Dec. 9
Wrestling (JV)—Emerson, Home, 7 pm

Friday, Dec. 10
Basketball (V) — Union, Away, 8 pm
Basketball (F)—Union, Away, 6:15
Squash (V)—Amherst, Away, 7 pm
Hockey (V) — Bowdoin, Home, 4 pm
Hockey (F) — Browne & Nichols, 7 pm

Saturday, Dec. 11
Basketball (V)—RPI, Away, 8:15 pm

Basketball (F)—RPI, Away, 6:30 pm
Wrestling (V) & (F)—Williams, Away, 2 pm
Swimming (V)—RPI, Home, 4 pm
Swimming (F)—RPI, Home, 2:30 pm
Track (V) & (F)—Bates, Away, 1:30
Fencing (V) — Brandeis, Home, 2 pm
Squash (V)—Williams, Away, 2 pm
Hockey (V)—Trinity, Home, 7 pm
Pistol (V)—Kings Pt., Home

Monday, Dec. 13
Basketball (JV)—Stevens Bus. Col Home, 7:30 pm

Tuesday, Dec. 14
Pistol (V)—Concord, Home
Wrestling (JV)—Leicester, Home, 7 pm
Track (V) & (F)—Tufts, Home, 6
Squash (V)—Harvard, Away, 4:30 pm

ISC plans year's programs at Endicott conference Sat.



The International Students Council (ISC) met with representatives of the student government Saturday at Endicott House to discuss projects such as ISC Weekend, March 16-18, and the information booklet for incoming foreign students.

How They Did

Basketball
Trinity 84, MIT (V) 79
MIT (V) 83, Wesleyan 70
Trinity 76, MIT (F) 67
Wesleyan 91, MIT (F) 60

Swimming
UConn 49, MIT (V) 46
UConn 55, MIT (F) 39

Track
MIT (V) 65, Bowdoin 48
MIT (F) 58, Bowdoin 54

Rifle
MIT (V) 1276, Wentworth 1197

Squash
MIT (V) 9, Adelphi 0
Navy 8, MIT (V) 1
MIT (V) 5, Dartmouth 4

Fencing
MIT (V) 20, Holy Cross 7
Harvard 18, MIT (F) 9

Hockey
UMass 5, MIT (V) 3

Wrestling
Harvard 29, MIT (V) 10
Harvard 21, MIT (F) 6
MIT (V) finished 10th in Coast Guard Invitational


Pistol
Army 2250, MIT (V) 2060

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THE TECH COOP
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Major division games highlight hockey action; Burton House tops Chi Phi, ZBT edges SAE

The intramural hockey season has continued to gain momentum, as evidenced by several exciting contests last week. The schedule was highlighted by two fast-moving Major division games that took place Wednesday night.

In the first contest, Burton House completely overpowered Chi Phi 18-1. Burton captain Pete Legzdins '65 led the scoring with 6 goals, while the rest of the scores were well distributed among the other members of the

squad. Zeta Beta Tau beat Sigma Alpha Epsilon 5-1 in the other game. ZBT rallied to score 3 goals in the final three minutes, turning a real cliff-hanger into an easy win. Chucks Greene '67 and Henry Goldman '65 scored two goals each for ZBT, while Steve Queeney '67 knocked in the lone SAE tally.

Tonight Burton House meets defending champs, NRSA, in one of the biggest games of the season.

Intramural Results

Basketball SAE 68, Sen Hou 'A' 33 EC 'B' 33, Sig Ep 'B' 26 Chem 'B' 36, Kappa Sig 26 DU 57, Sigma Nu 43 GMS 45, Chem 'A' 43 The Team 56, Grad Econ 27 Bur 'E' 46, Sen Hou 'C' 25 Theta Xi 38, Bexley 36 Stud Hou 61, PLP 'B' 33 Bak 'A' 38, PKS 24 ATO 66, Theta Chi 'A' 37 Bur 'D' 41, Bak 'C' 32 Westgate 58, Sigma Chi 27 Ash Hou 'B' 40, EC 'C' 35 DKE 42, Grad Econ 'B' 30 Sig Ep 'A' 61, PLP 'A' 44 Poly Sci 46, Celtics 'A' 22 LXA 'A' 46, Burton 'A' 32 Ash Din 31, Chi Phi 20 NRSA 42, EC 'A' 32 TDC 29, Sen Hou 'B' 27 Bur Rebs 32, Theta Chi 'B' 8 Chem 'B' 47, PKS 25	Bur 'B' 43, Sigma Nu 22 EC 'C' 45, Theta Delta Chi 32 ZBT 58, Theta Chi 48 Pi mesons 36, Bak 'B' 34 SAE 41, AEPi 37
Hockey Sig Ep 9, Phi Kap Sig 0 SAM 5, Theta Chi 1 Instrumentation Lab 2, Habitants 1 Fiji 'B' 2, Burton 'B' 1 ZBT 5, SAE 1 Burton 'A' 18, Chi Phi 1 Phi Kappa Theta 3, ATO 1 Baker 5, AEPi 0 NRSA 'B' 3, Theta Delta Chi 0 NRSA 'A' 2, Fiji 1 Sig Ep 2, Sigma Chi 1 Senior House 3, Phi Mu Delta 0	Bowling League Leaders League 1—Baker 'A' 136.3 NRSA 129.3 League 2—PMD 'A' 144.1 TC 133.0 League 3—SPE 'A' 131.3 Burton Satyrs 119.3 League 4—Bur I 138.2 SC 121.1 League 5—Sen Hou 'C' 139.4 Ash Hou 116.3 League 6—TEP 'A' 136.6 Bur IV 124.4 League 7—Bur III 134.3 Bak 'B' 136.8 League 8—AEPi 'A' 132.4 LXA 123.6 League 9—Sen Hou 'A' 125.9 ATO 125.8
Traffic Symposium 'Studies in Traffic Safety' is the title of the Operations Research Center Symposium to be held today. The Symposium will take place in Room 24-117 at 3 pm, and will be conducted by Dr. Robert Herman and Mr. Richard Rothery of the General Motors Corporation.	High Averages Strong, PMD 'A' 193 Anderson, Theta Chi 185 Dann, Senior House 'C' 185 Scott, PMD 'A' 181 Sieber, Bur IV 180 Burns, Sen Hou 'C' 176 Marks, TEP 'A' 175 Hansche, Sigma Chi 174 Dahner, Burton I 173

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Frosh Sports

Track team victorious, 2 swim marks broken

The freshman track team swept the last two events to open its season with a 58-54 victory over Bowdoin Saturday. John Schmitz, Bruce Enders, and Al Kudler finished 1, 2 and 3 in the high jump, and the mile relay was won in 3:51.3 by Bill McLeod, Don Uhl, Jim Woods, and Dean Schneider. and long distance specialist Stan-Kozubek won both the mile and the two mile in times of 4:42.9 and 10:28.6 to become MIT's only double winner.

Other first places were won by McLeod in the 50 yard dash, Schneider in the 600 yard run, and Rich Wolfson in the 1000 yard run.

Mermen upset

Despite the record-breaking performance of Tech's Luis Clare, the frosh mermen were soundly defeated by UConn 39-55. MIT was favored to beat the visitors, but they managed only 4 wins in 11 events. Clare was the only double winner for the frosh, taking the 200 yard individual medley and 400 yard free-style. In capturing these two wins, he set new frosh records of 2:15.8 and 4:26.7 respectively.

Joining him in the winner's column were Lee Dilley and Steve Mullinax. Lee took the 200 yard free in 2 minutes flat, while Steve, in his specialty, the backstroke, won in a time of 1:04.5. Other point winners for MIT included Bill Carson, Bill Stage, Kent Attridge, Bob Anderson, Bill Wagner, and Tom Nesbitt.

Erickson, Davies win

The Harvard matmen dealt our frosh a 21-6 defeat in their first effort of the season. Coach Bob Wells boasted two individual winners, Greg Erickson (123) and Keith Davies (177). Erickson defeated his opponent 13-6, and Davies won 6-2. The frosh were hampered by Thanksgiving vaca-

tion and the mid-term breaks. This showed especially in the conditioning. The matmen will be trying to improve their record against WPI tonight at home.

Fencers lose

The fencing loss to Harvard was termed a fair showing by Coach Constantine Arvanites. Experience was the deciding factor in the 9-18 loss.

Fine individual performances were turned in by Tony Lamb and Bill Stephan in the epee. Peter Hayward, Bob Markey, and Tom Stewart came through to stabilize the frosh in their weakest weapon; the foil. The sabre division boasted competent performers in David Hu, Bob Gentala, and John Lockhart.

Cagers drop two

The frosh basketball team lost two contests in their first week of action. In a close one, the Trinity cagers pulled out a 76-67 victory over the frosh. Coach Arnie Singal had three men in double figures: Tom Scholz, 17; Mike Perry, 13; and Walt Suchon, 10.

The roundballers journeyed to Wesleyan Saturday looking for their first win, only to be blown off the court by a strong Wesleyan five, 91-60. Fifteen to twenty turnovers accounted for the large margin. Bob Listfield netted 12 for the losers.

Hockey prospects

Coach Wayne Pecknold will send his frosh skaters against Browne and Nichols Friday night in their first contest. High hopes for the season rest with the team's goalie, Steve Erikson. He obtained his playing experience at Tabor Academy.

Mike Talalay will center the first line with Scott Rhodes on one of the wings. Outstanding among the defensemen are Mike Bruce-Lockhart and Rich Pinnock.

Phi Deltas take IM swimming title; Army outshoots records set in five different events varsity pistolers

By Dave Lyon

Phi Delta Theta captured the IM swimming title today by shading Theta Chi in a meet which saw five new records set and an old standard tied. The Theta Chi's had to depend on superior depth and little else to garner the points necessary for their second place showing. ZBT picked up the third spot, Grad Management was fourth, and TEP finished fifth.

Several new records

Old records began falling in the first event Sunday when ZBT took the 200 yard Medley Relay in 2:04.8. The two Grad Management freestylers captured championships and smashed records in their two events. Dennis Meadows was victorious in the 50 yard free with the new record time of 25.2; and Mike Scully rode home a winner in the 100 free with a 56.1.

John Howard '67 was the meet's only double-winner with championships in both the 50 backstroke (30.3 and a new record) and the 50 butterfly (28.0, ties old record). These two victories gave Fiji 14 points and sixth place in the meet.

The overall champions, Phi Delta Theta, took their only cham-

pionship in a single event in the 200 freestyle relay. Their time for the event was an impressive 1:49.3, another meet record.

Smullin new diving champ

Joe Smullin of NRSA is the new IM diving champion, and Albert Reisz '69 from SAE took the 50 yard breaststroke title.

Preliminaries for the meet were held Tuesday and Thursday in the early evening. The top six men in each event advanced to the finals with diving prelims and finals both being held Sunday.

Standings	IM Points
Phi Delta Theta	90
Theta Chi	72
ZBT	58
Grad Man.	46
TEP	37
LXA, Fiji	28
DU	19
Burton	15
NRSA, Baker	11
AEPI, SAE	7
SFD	5
Senior House	4

The Tech varsity pistol team dropped a 2250-2060 decision to Army in a Northeast Intercollegiate Pistol League match at West Point Saturday. John Reykjalinn '67 led the Techmen with a 544 score. Dennis Swanson '68 shot 531, Gary Pankey '66 had 506, and Captain Chris Egolf '66, 479 to round out Tech scoring. Three time All-America shooter Pete Dickens had 573 to lead the Cadets.

The pistolmen's next match is an intercollegiate contest against King's Point and UMass Saturday.

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Cox sparks rally

SAE tops AEPI 41-37

Sigma Alpha Epsilon took sole control of first place in the National League Sunday by defeating previously unbeaten Alpha Epsilon Pi 41-37. The SAEIors found AEPI hard to handle in the first period as the Pis jumped out to a quick 8-2 lead. Herb Finger '68 and Sam Wilensky '59 dominated the boards for AEPI, while Finger added 6 points to end the first period 13-9.

The contest remained tight throughout the second quarter with the Pis retaining a 3-point margin. SAE's Don Rutherford '67 collided with teammate Don Paul '67 and was forced to leave the game with a cut under his right eye.

SAE goes ahead

Halfway through the third period Gil Cox '68 put SAE in the lead for the first time, 31-29. SAE led at the three-quarter mark 33-29.

In the final period AEPI closed the deficit and pulled out ahead by three points, 37-34. Mike Gelberg '67 and Gerry Banner '68 got 2 free throws and 2 field goals between them. A foul shot by Gil Cox and a jumpshot by Bill Dix '67 tied the score with 1:15 to go. AEPI held out for the last shot, but Gil Cox stole the ball and was fouled. His one-and-one made it 39-37 with ten seconds left. Cox again stole the ball and was fouled as he put the game away 41-37.

Cox was high man with 20 points, followed by AEPI's Gerry Banner with 18. Don Paul had 10.

ZBT over Oxen

Later in the evening ZBT came back from a ten-point gap at the end of the third period to beat Theta Chi 58-48. Mike Rubin '64 led the ZBT comeback dropping in 25 points. Dick Zinner '67 contributed 14 points, all in the sec-

ond half. Paul Goldstein '66 had 12 for ZBT, while Hal Jones '67 led Theta Chi with 14.

Phi Gamma Delta continued their winning streak by smashing Phi Mu Delta 55-33. Don Lapenas '69 led the Fijis, while Wayne Baxter '66 and Roy Whittenbach '65 each added 10. John Yeasley '66 was high scorer for Phi Mu Delta.

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United States Air Force

Skaters drop thriller to UMass

By Steve Wiener

The hockey team lost a 5-3 thriller to the UMass skaters Saturday Dec. 4. The contest, played at Dupont, featured a lead which switched hands four times and a hat-trick by visiting wing Bob Cardigan.

The engineers dominated the puck for the opening minute of play. Seconds after the first line had been replaced wings Clayton Satow '68 and Tony Pasquale '66 and center Mike Harris '68 teamed up for the game's initial goal. Satow lifted the puck by the stick of UMass goalie Bob Eddie.

Power play fails

MIT, one man up due to the tripping penalty of UMass' Matt Connolly, maintained possession of the puck but failed to mount a successful power play. Seconds after the visitors had six men back on the ice they knotted a score. Cardigan stole the puck for UMass, skated down ice, and, unassisted, beat Tech goalie Bob MacDonald for his first score.

The remainder of the period saw a phenomenal display of defense by the Tech skaters. Because of successive penalties by "Moose" Kosiner '66, Bob Smith '67, Captain Loren Wood '66, and Tony Pasquale, the hosts were skating at a two man handicap for close to four minutes. Effective checking by Dennis Coleman '68 and Kosiner and fancy net



Photo by Art Kalotkin

Varsity skater Clayton Sadow '68 faces off against UMass's Bob Cardigan in the third period of their game Saturday. Though Tech led through half of the game, Cardigan's three goals helped to defeat MIT 5-3.

work by goalie MacDonald blanked the visitors til the period's end.

The second period saw even skating for eight minutes until Bob Cardigan, assisted by Mass defenseman Jim Maloney, tallied his second goal to give the visitors a 2-1 edge. Four amazing saves by opposing goalie Bob Eddie thwarted attacks by MIT wings Pete Catto '66 and Pete Getting '67. UMass left the ice after period two with a slim one point lead.

Moment's after the final session began, Kosiner returned from the penalty box, drove past the opponents goal, and centered the puck to Loren Wood, who slapped it by Eddie to even the score. On the ensuing faceoff Bob Smith, on a pass from Harris, gave MIT a 3-2 lead.

Kosiner, who at 200 lbs. was by far the biggest man on the ice, continually dumped UMass skaters to break up the visitor's scoring opportunities. In spite of his brilliant defense and the sparkling net play of MacDonald, who registered 42 saves, the UMass attack got too tough to handle. Vis-

iting right wing John McShane tied the score with five minutes left, while Bob Cardigan, on his third goal of the afternoon, gave UMass a 4-3 lead. The visitors clinched the contest in the final minute as they rebounded a shot into the net from the post. The game ended 5-3.

MIT skated on an equal basis with a squad to whom they lost last year by scores of 7-1 and 8-1. Their next game is at home against Bowdoin Friday afternoon.

10th at Coast Guard

Wrestlers lose to Harvard, 29-10

By Armen Varteressian

In their first dual meet of the season last week, the Tech varsity matmen went down to defeat at the hands of a powerful Harvard squad, 29-10.

At 123 pounds, Bill Harris '68 lost his first varsity match to experienced Howard Henjyoji, 14-3. The Techmen picked up their first two points of the meet when "Chip" Hultgren '66 and Bill Sung of Harvard drew, 1-1. Neither man was able to complete a takedown, and scoring was limited to escapes early in both periods. Harvard took the next two matches, Frank Gilmore pinning Tim Connolly '66 at 137 pounds and Dur-

fee scoring a decision over "Whitely" Whiteman '66.

Fishback Drops Decision

At 152 pounds, John Fishback '68 lost to Ed Franquemont. Despite the 8-2 decision against him, Fishback looked impressive in his first varsity match against the highly ranked Franquemont. Norm Hawkins '68 added 3 points to MIT's team score by defeating Harvard's Worcester in the 160-lb. division, 9-4. After an undefeated season last year as a freshman, Hawkins is starting his varsity career off strong.

MIT lost the next two matches as Al Landers lost a decision to Chris Wickens, and Dave Penny '66 lost by pin at 177 pounds, bringing the meet score to 24-5. MIT's lone victory by pin came in the 191 pound class, as Dick Nygren '66 triumphed. Harvard bounced back in the unlimited class as Tack Chace pinned Harry Moser '66, bringing the final score to 29-10, and handing MIT its first defeat.

Oklahoma State Champs

Over the weekend, the wrestlers participated in the Coast Guard Invitational match at New London, Conn. With a total of 17 points, Tech placed tenth of 16 schools

posed arm could give a real advantage to the opponent. Brooks showed this kind of caution but, particularly in his final match, went all out on his attacks. Once he began the offense he went through to the touch. The result was a series of cleanly made scores.

Bob Fall showed the same kind of aggressive fencing and used it to pull out of a tight spot. With seconds left in his final match he touched on a long attack, bringing the score to a tie. Attacks were made on both sides and parried. Both fencers saw an opening at the same time and went for it. When the smoke cleared, it was called a double touch and there was no score. Bob waited, saw a small opening, and went for it. He was smooth and right on target, racking up another win.

Epees drop 5 of 9

The epee squad dropped five out of nine matches to a not particularly skillful Holy Cross squad. The matches MIT won were close and at times caution and waiting were carried to extremes on both sides.

It's possible that some of the surplus of good foilmen will be trained in epee, but the Maestro, Silvio Vitale, is reluctant to take men away from a weapon in which they show real promise.

competing. Oklahoma State ran away with the meet championship, with 6 out of 9 championships and two runnerup titles. Among the Oklahoma State champs was Yojiro Uetake, Olympic gold medal winner and NCAA champion, at 130 pounds. Uetake fought with such determination that he injured his first three opponents.

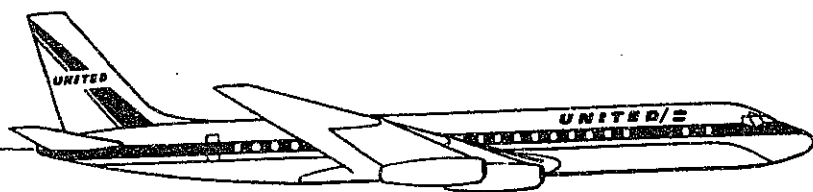
Other OSU Cowboys competing were Bill Harlow, NCAA runner-up at 177 pounds, and T. Hatta, twice NCAA champ at 115 pounds. Dave Schramm '67 was the most successful Tech wrestler in the competition, accumulating 8 of MIT's 17 points while taking third place in the unlimited weight class, defeating Harvard's Tack Chace along the way. Norm Hawkins won 2 matches plus a challenge match, and was finally eliminated by Harvard's Franquemont, who went on to take second place. Chip Hultgren won 2 matches, while Fishback, Whiteman, Connolly, and Hank DeJong '67 won 1 match apiece.

Tonight the varsity and freshmen will go against WPI at 7, and they will travel to Williams this weekend for a match against the tough Williams team.

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Distance team strong

Trackmen top Bowdoin 65-48 in season opener

By Tony Lima

Led by good showings in the distance and field events, the varsity trackmen pulled out a 65-48 victory over Bowdoin Saturday in Rockwell cage. The Techmen took first place in every event except the weights and sprints.

In the field events, Tech was led by Steve Sydorak '68, in the pole vault. Sydorak went over at 13 feet, 4 inches to take first, then missed at 13'6 1/2", which would have been a new MIT record. Taking second in this event was Steve Schroeder '67. The broad jump fared equally well, with Greg Wheeler '67 and Rex Ross '66 finishing first and second. In the high jump, Tom Jones '66 took first, while Art Van Waldburg '67, finished third.

In the distance events, Tech showed extremely good depth, despite the fact that the longer distances were barely contested. The Techmen swept the mile and two mile events. In the mile, co-captain Sumner Brown '66 took first, while Bob Wesson '66, and Dan Hoban '68 were second and third. Wesson took the two mile, with Hoban and Pete Peckarsky '68 finishing behind him. In the 600 yard event, Bob Dunlap '67 and co-captain Larry Schwoeri '66, both running with slight injuries, managed to finish one-two in one of the tightest races of the meet. Bob Karman '67 and Sam Guilbeau '67 rounded out the distance events by taking first and second in the 1,000 yard run.

The only weakness shown by Tech was in the hurdles and sprints, where the combined efforts of the Techmen yielded only a lone third place. This weakness should be remedied before the season gets too far underway.

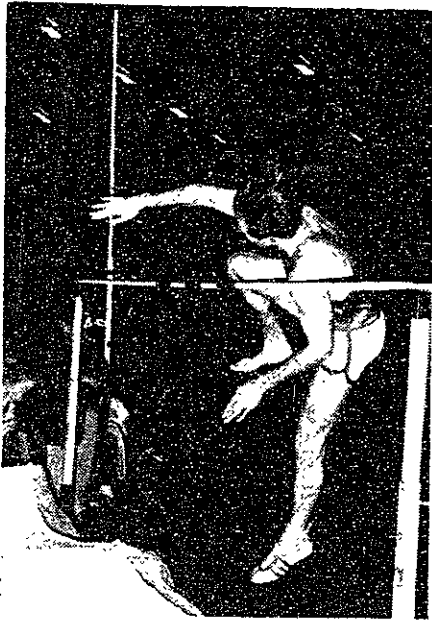


Photo by Steve Teicher

Art VonWaldburg '67 takes off in Saturday's high jump event against Bowdoin.

Broad Jump—1. Wheeler (MIT); 2. Ross (MIT); 3. MacDonald (B). Distance: 21' 7 1/2".

High Jump—1. Jones (MIT); 2. Seager (B); 3. Van Waldburg (MIT). Height: 9'0".

Pole Vault—1. Sydorak (MIT); 2. (tie) Schroeder (MIT) and Smith (B). Height: 13'4".

Shot Put—1. Hews (B); 2. Stocking (B); 3. Maybeck (MIT). Distance: 49'4 1/2".

35 lb. Weight Throw—1. Shaelten (B); 2. DeWitte (MIT); 3. Stocking (B). Distance: 59'7 1/2".

2 Mile—1. Wesson (MIT); 2. Hoban (MIT); 3. Peckarsky (MIT). Time: 10:35.0.

1 Mile—1. Brown (MIT); 2. Wesson (MIT); 3. Hoban (MIT). Time: 4:36.7.

1000 Yard Run—1. Karman (MIT); 2. Guilbeau (MIT); 3. Wesson (MIT). Time: 2:31.2.

600 Yard Run—1. Dunlap (MIT); 2. Schwoeri (MIT); 3. Allen (B). Time: 1:18.2.

50 Yard Dash—1. MacDonald (B); 2. Bird (B); 3. Silverstein (MIT). Time: :05.8.

High Hurdles—1. Tarbell (B); 2. Monken (B); 3. MacDonald (B). Time: :05.7.

Low Hurdles—1. MacDonald (B); 2. Bird (B); 3. Tarbell (B). Time: :05.7.

Mile Relay—1. MIT (Wheeler, Brown, Dunlap, Schwoeri). Time: 3:44.0.

Cagers split first two games

By John Kopolow

MIT's varsity basketball season began on a sour note Wednesday as the cagers dropped an 84-79 contest to a polished team from Trinity College. However, Tech bounced right back Saturday to crush Wesleyan, 83-70.

In the early minutes of the first game, MIT and Trinity were trading shot for shot. Numerous defensive lapses gave Trinity several buckets, but the Beavers, led by Bob Hardt's fine rebounding and Dave Jansson's hot shooting, stayed close. Hardt scored 14 points in the first ten minutes of play, and then he picked up his fourth foul and was taken out. The rest of the half belonged to Trinity, as they left the floor at halftime with a 47-36 cushion.

MIT switches to zone

The second half began much like the first. MIT switched to a zone defense, but it proved ineffective against Trinity's fine outcourt shooting. Tech, however, was beginning to make better use of its height advantage, grabbing more defensive rebounds and getting the ball to center Alex Wilson for frequent scores. They were down 63-51 with 14 minutes left when they went back to their hustling man-to-man defense. As Trinity cooled off, Captain Jack Mazola caught fire with several quick buckets. With 7:37 remaining, MIT fought into the lead, 68-67.

However, it was not to last long. With 6:40 left in the game, Hardt fouled out, and Tech lost its momentum. The lead switched back and forth for the next two minutes, but then the Beavers made several bad passes, and Trinity went ahead 77-73 with 3:58 left. They froze the ball for about a minute and added a point to their lead to win, 84-79.

Hardt scores 22

Hardt scored 22 points before

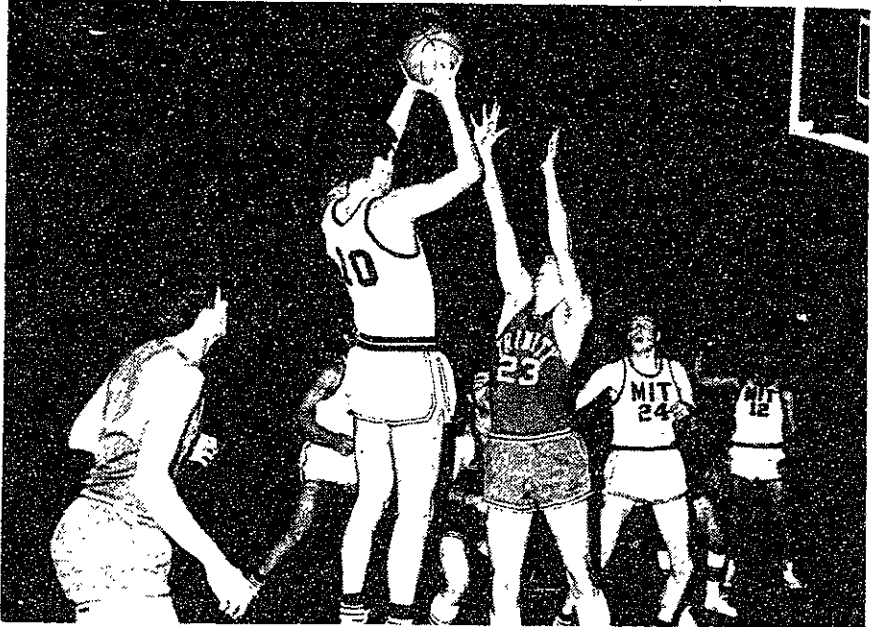


Photo by John Torode

Bob Hardt '67 (10) scores over Trinity's Bob Gutzman in the second half of Wednesday's game. Dave Jansson '68 (24) sets up under the boards while Jack Mazola '66 (12) looks on. Trinity edged the Techmen 84-79.

fouling out, and had that not happened, no doubt the outcome would have been reversed. Wilson pumped in 19, Mazola 18, and Jansson 16.

The Tech cagers travelled to Middletown, Connecticut, to face Wesleyan, which is led by center Wherle, the highest scorer in their history. MIT started off very shakily, missing easy lay-up shots frequently and being out-fought off the boards. At one point they trailed by as many as eight.

About midway through the half, Tech began to settle down. They broke through Wesleyan's defense which alternated between a zone and a man-to-man, on frequent occasions, and Hardt and Wilson began to control the backboards. Wilson got into foul trouble guarding Wherle, but Wherle also picked up three fouls. By the end of the half Tech held a 39-36 advantage.

Tech controls 2nd half

The Beavers were in command throughout the second half. Their offense was very effective as Wesleyan fouled frequently when Wherle acquired his fourth foul and was replaced, Tech pulled away to its decisive 83-70 triumph. Although Wherle led all scorers with 33, Sophomore Jansson led MIT with 24 points. Hardt had 19, Wilson 15 and guard Bob Ferrara 12. John Flick, who replaced Mazola in the first half,

finished up the game and played very well, scoring eight.

The varsity's next game is Friday at Schenectady, New York, against Union College, followed by a game Saturday against R P I at Troy.

	FG	FT	PTS
Trinity			
Belfiore	18	4	26
Overbeck	12	2	26
Gutzman	7	0	14
Layles	3	4	10
Hovrhan	3	1	8
Hickey	1	1	2
Total	36	12	84

	FG	FT	PTS
M.I.T.			
Mazola	8	2	18
Jansson	8	0	16
Hardt	11	0	22
Ferrara	1	0	2
Wilson	7	0	15
Jewell	1	0	2
Total	36	2	79

	FG	FT	PTS
Trinity			
Trinity	47	37	94
MIT	36	43	79

	FG	FT	PTS
M.I.T.			
Jansson	5	14	24
Hardt	6	7	18
Wilson	3	6	15
Ferrara	3	0	6
Flick	4	0	8
Mazola	2	1	5
Almann	0	0	0
Hirshon	0	0	0
Kinsella	0	0	0
Total	25	28	83

	FG	FT	PTS
Wesleyan			
Belk	5	0	10
Bensinger	3	0	6
Lepic	0	2	2
Emerson	1	0	2
Emmanuel	0	0	0
Rainey	1	0	2
Wherle	1	15	33
Schubert	4	0	8
Pawlowski	0	1	2
Mayer	0	0	0
Reisfeld	1	0	2
Ryan	0	0	0
Total	26	18	70

	FG	FT	PTS
MIT	39	44	83
Wesleyan	26	34	70

Gardner wins two

Swimmers edged by UConn 49-46

By Neal Gilman

The MIT varsity swimming team, coached by Dave Michaels, opened its season Saturday afternoon with an extremely close 46-49 loss to the University of Connecticut.

Sophomore Karl Gardner displayed good talent in his first varsity meet by placing first in two of the four events MIT won. Gardner won the 200 yd. Individual Medley with a time of 2:20.0, ahead of Jay Goodman '66, who placed third. He rested during the next event, diving, and then proceeded to swim to his second victory in the 200 yd. Fly with a clocking of 2:24.2; the third place went to teammate Rich Cockerill '66. He later swam a leg in the 400 yd. Free Relay which was clocked in a winning time of 3:31.3, about one second off the varsity record.

Crane, McFarren shine

Captain Mike Crane '67 and John McFarren '68 also put on good efforts, each placing a first and second in two events and helping in the final 400 yd. Free relay along with John Wrigley '67.

Crane scored the first victory for MIT in a short exciting 50 yd. free style. Crane, a foot behind a UConn swimmer on the first lap, slowly cut down the lead on the last lap and just out-touched him at the wall. Both were timed at 23.5 seconds. Crane's second place was in the 100 yd. Freestyle where he swam behind McFarren, who was clocked in a winning time of 52 seconds. Previously, McFarren had placed second in the 200 yd. Freestyle.

The diving event was extremely close, with 3/5 of a point deciding between first and second. Fred Solomon '68, just missing a victory in the event with a total of 74.16 points, placed second ahead of Dan Gentry '68. After the sweep by McFarren and Crane in the 100 yd. Free, MIT finally took the meet lead, but this was quickly lost as the mermen lost the remaining three individual events.

Goodman takes 2nd

In the 200 yd. backstroke, Goodman, in a duel for second place, barely out-touched a UConn swimmer, as Dave Benbassat '68 then gained another MIT second in the 500 yd. Free. The crucial event to decide the meet was the 200 yd. Breaststroke. MIT needed a second place in the event to keep the meet alive for the final relay, which Coach Michaels had stacked. For seven laps of this event, John Preston '68 had the second place MIT needed, but then on the last lap he was caught from behind and lost a very close second.

The UConn sweep in the 200 yd. Breast now put the meet out of reach for MIT. The Engineer's victory in the final relay was anticlimatic.

The mermen have two meets this week, one with Tufts away Wednesday and the other with RPI, at home, Saturday 4 P.M.



Photo by Bob Kendrick

Jay Goodman '66 (second from right), and Bill Donahue '68 (far right), come blasting off the wall at the start of the 200 yard backstroke. Goodman took a second in the event touching out a UConn man by inches.

Varsity marksmen win over Wentworth

By Russ Mosteller

MIT's varsity rifle team raised its Greater Boston Collegiate Rifle League record to 2-2 with a 1276 to 1197 victory over Wentworth Institute Friday. Leading shooter for the Techmen (and for the meet) was Dennis Artman '68 with a total of 263. He was closely followed by Andy Sherman '67 with a 262 and Wentworth's Ches-scoring for MIT were Tom Hutzle-man '67 (256), Phil Rosenkranz '67 (251), and Steve Walther '66 (244).

The rifle team will see no more action until January 8, when they will travel to Dartmouth.

Squash team shuts out Adelphi, loses to Navy; edges Dartmouth in down to wire match 5-4

By Tom James

The MIT varsity squash team took two out of its three matches in the first week of its winter season. In their opener, the MIT nine trounced Adelphi 9-0, and then bounced back from an 8-1 defeat at the hands of a strong Navy team by edging Dartmouth 5-4 in a real thriller where every game counted.

The match against Adelphi December 1 was won handily, with typical scores like those of Pete Hurley '68, 15-7, 15-5, and 15-5. The two toughest matches were those of one and two men Larry King '66 and Tom Gomersal '66; Tom's match took a particularly long time, during which he really put on a great performance.

In the match with Navy Friday, the Annapolis men won almost every game, with the exception of that of Bob Wolf '66, who took his match 3-0.

A real duel took place Saturday when Dartmouth visited Tech. Dartmouth started off strong, leading 3-1 with four matches completed. Usman Ismail '66 went in the number one spot for Tech, and lost after a very close battle that lasted four games. King, in second position, won his match

handily in four games after a slow start, where he was behind 10-3 at one point in the first game.

Gomersal again played long and well in a match that went the maximum five games; he won the deciding game 17-15. The last match was also a five game bout in which Chye Tan'ivit '68 came through for MIT and gave the team the over-all win.

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